Cassette car radio 22DC501/511/521/00

22DC505/515/525/02

Service
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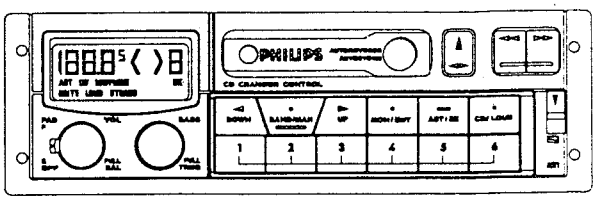

For repair information of the Cassette deck see Service Manual of Auto Cassette Deck P6/26-1

ServiceManual

12 V

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TECHNICAL DATA

GENERAL

Power supply	:14.4V DC
Dimensions	:180x160x51 mm

RADIO

LW	: 144-288 KHz
MW	: 531-1611 KHz
FM	: 87.5-108 MHz
IF-AM	: 10.7 MHz
IF-FM	: 10.7 MHz
Sensivity 26dB S/R	: 42 µV (LW)
	: 30 µV (MW)
	: 4 µV (FM)
Limitation α-3dB	: 8 to 22 µV

CASSETTE

Cassette mechanism	: P6-26/1
Number of tracks	: 2x2
Tape speed	: 4.76 cm/sec
Wow and flutter	: ≤0.30%
Crosstalk	:≥ 30 dB

AMPLIFIER

Output power	: 4 X 4.5W – 2 X 15W / 4Ω #
(D = 10%)	: 4 X 4.5W / 4Ω
Line Out voltage #	: 500 mV
CD Input sensivity*	: 125 mV
Loudness	: +4 dB at 100 Hz
	: +0.5 dB at 1 KHz
	: +0.2 dB at 10 KHz
Tone control	: +20 / -20 dB at 60 Hz
	: +2.5 / -2.5 dB at 1 KHz
	: +10 / -15 dB at 10 KHz

: Except DC501/505

* : For DC521/525 only

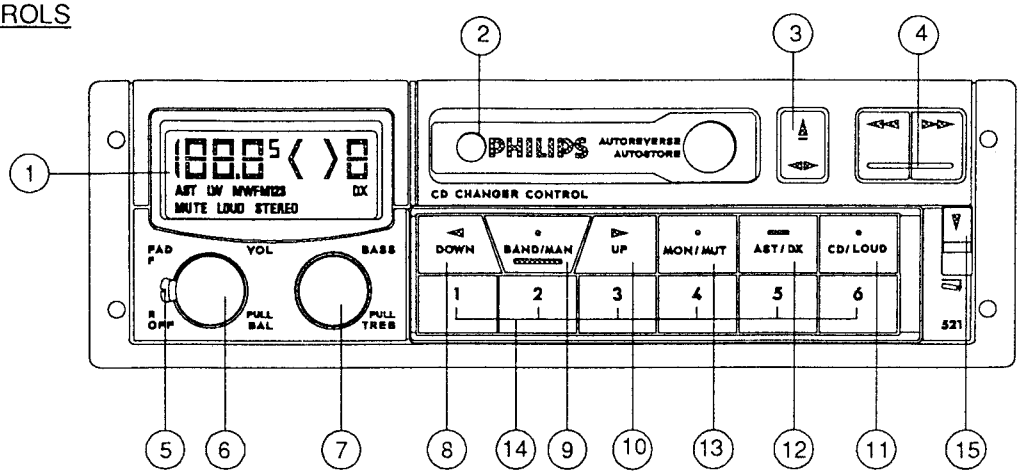
ESD

WARNING

All ICs and many other semi-conductors are susceptible to electrostatic discharges (ESD). Careless handling during repair can reduce life drastically.
When repairing, make sure that you are connected with the same potential as the mass of the set via a wrist wrap with resistance. Keep components and tools also at this potential.

PCS 59 707

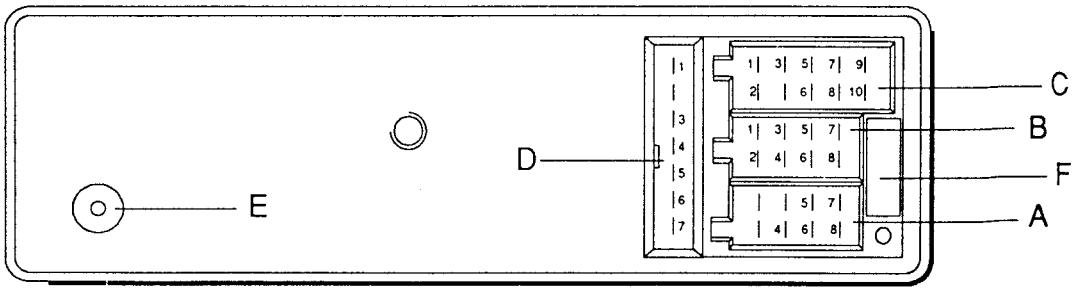
CONTROLS



(1) Display	(9) Wave Range / Manual Mode
(2) Cassette Opening	(10) Search Up / Track Up *
(3) Eject / Reverse Button	(11) Loudness / CD Mode *
(4) FRW / FFW Buttons	(12) Autostore / Distance Mode
(5) Fader	(13) Info mode # / Mute # Mono/Stereo$ / Mute$
(6) ON/OFF / Volume / Balance	(14) Preset Selection / Disc Selection *
(7) Bass / Treble	(15) Release Knob for Detachable Unit
(8) Search Down / Track Down *	

* : DC521/525 only # : DC505/515/525 only $: DC501/511/521 only

CONNECTIONS

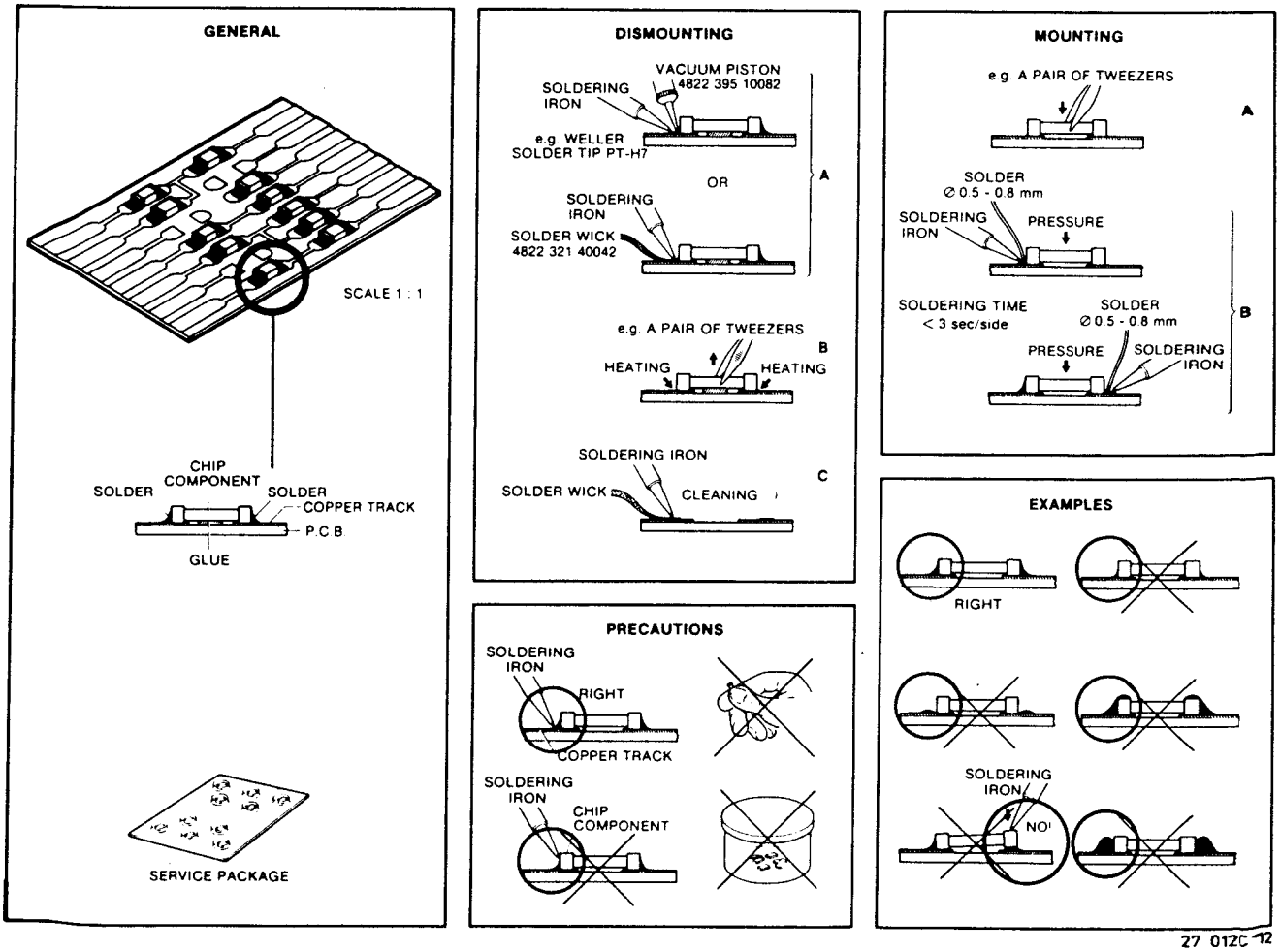


A : POWER SUPPLY	B : LOUDSPEAKERS	C : CD CHANGER *	D : LINE OUT□
A4 Battery Plus Permanent	B1 Rear right	C1 Bus-ground	D1 Switched Plus
A5 Switched Battery Plus	B2 Rear right ground	C2 Clock	D3 Line out ground
A6 External Illumination	B3 Front Right	C3 Data	D4 Front right
A7 Battery Plus (Main Supply)	B4 Front Right ground	C5 Switched Plus	D5 Rear right
A8 Ground	B5 Front Left	C6 Ground	D6 Front left
	B6 Front Left ground	C7 Switched Plus aerial	D7 Rear left
E : AERIAL PLUG	B7 Rear left	C8 Line in right	* : DC521/525 only
	B8 Rear left ground	C9 Line in left	□ : Except DC501/505
F : FUSE 5A		C10 Line in ground	

22DC525

Schematic diagram and PCB layout of CD Interface Module will be dispatched in a further supplement to this manual

HANDLING CHIP COMPONENTS



SECURITY CODE

ACTIVATING PROTECTION

POWER OFF, PRESS UP+ POWER ON UNTIL BEEP

CODE ACTIVE

DEACTIVATING PROTECTION

POWER OFF,PRESS UP+ POWER ON

DISPLAY SHOWS Cod

ENTER CODE

PRESS UP KEY UNTIL ♫♫ PROTECTION DEACT RADIO STARTS

ENTERING A CODE

Example : 3752

DISPLAY SHOWS Cod

PRESS P1 KEY DISPLAY SHOWS " - "

PRESS "UP" KEY UNTIL DISPLAY SHOWS 1st DIGIT OF CODE " 3 "

PRESS P1 KEY DISPLAY SHOWS " 3 - "

PRESS"UP" KEY UNTIL DISPLAY SHOWS 2nd DIGIT OF CODE " 3 7 "

PRESS P1 KEY DISPLAY SHOWS " 37 - "

PRESS"UP" KEY UNTIL DISPLAY SHOWS 3rd DIGIT OF CODE " 37 5 "

PRESS P1 KEY DISPLAY SHOWS " 375 - "

PRESS"UP" KEY UNTIL DISPLAY SHOWS 4th DIGIT OF CODE " 375 2 "

PRESS P1 KEY UNTIL ♫ OR ♪

♪ INCORRECT CODE

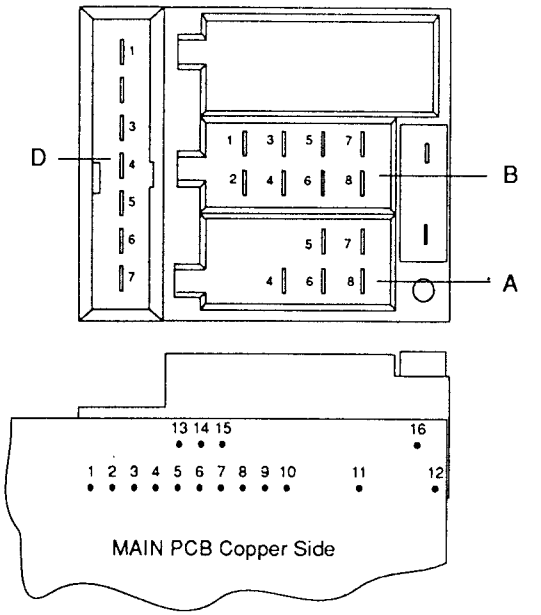
WAITING PERIOD

AFTER EACH INCORRECT CODE,WAITING PERIOD IS DOUBLED : 1,2,4,8 mn WITH A MAXIMUM OF 32 mn

DURING WAITING PERIOD DISPLAY SHOWS Cod ( ) AND EVERY ACTION IS REFUSED

♫ CODE CORRECT RADIO STARTS

Connectors blocks



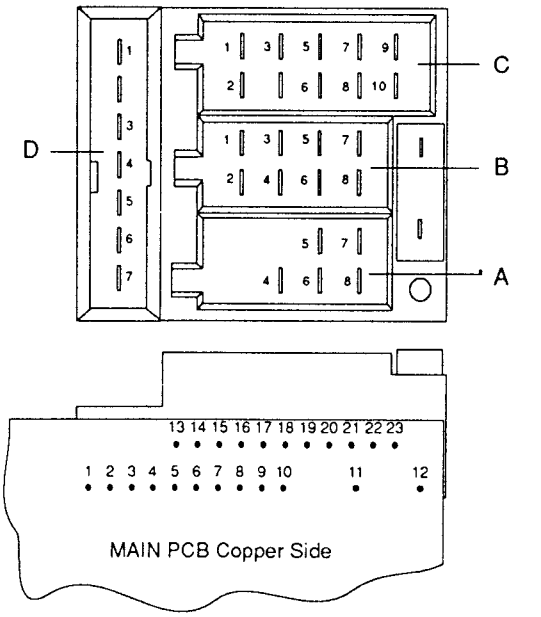
A4 = 9
A5 = 10
A6 = 11
A7 = 1
A8 = 12, 16

B1 = 7
B2 = 14
B3 = 15
B4 = 7
B5 = 6
B6 = 5
B7 = 5
B8 = 13

D1 = 10
D3 = 4
D4 = 3
D5 = 3
D6 = 2
D7 = 2

DC511/515 only

22DC521/525



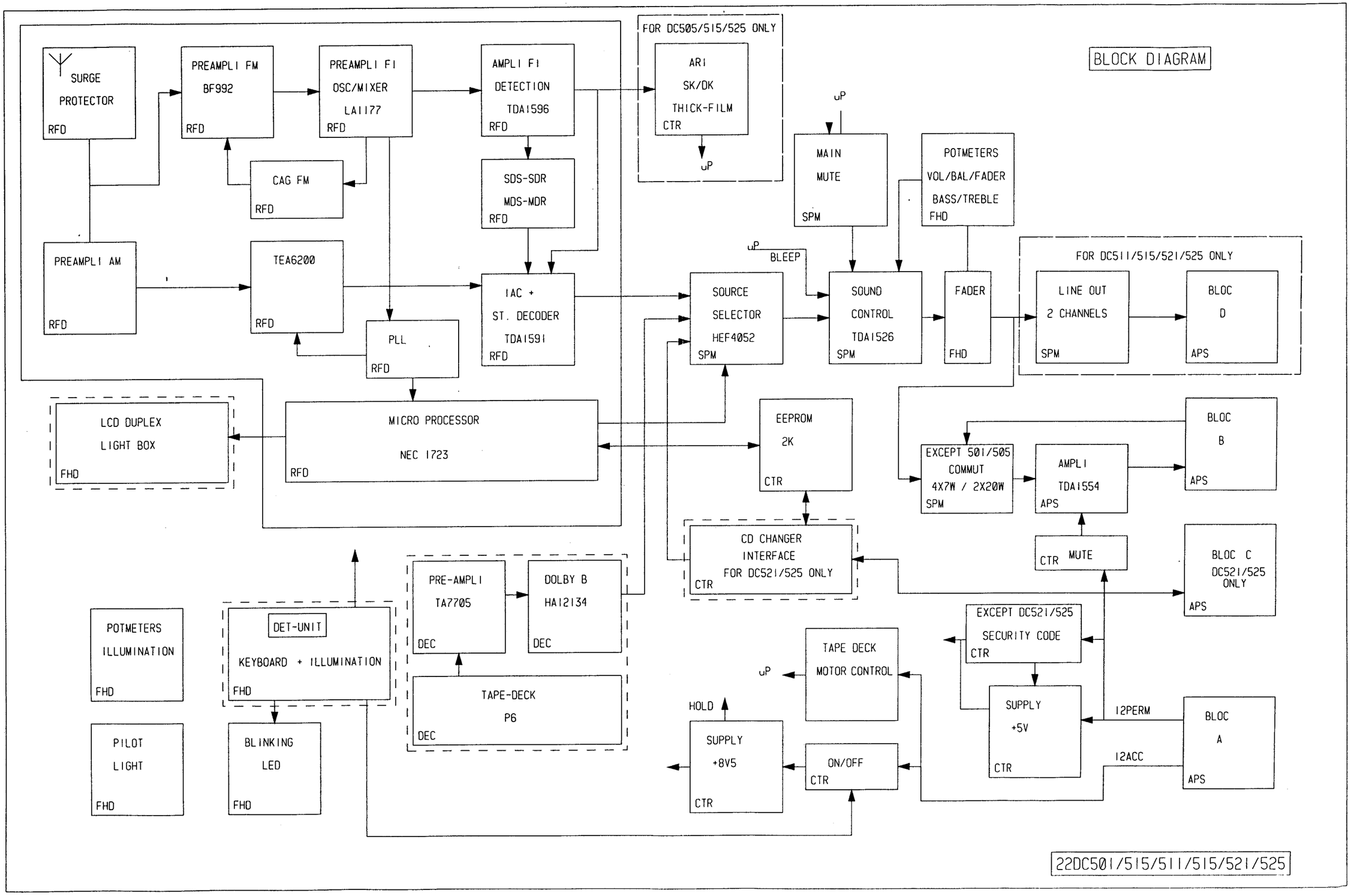
A4 = 9
A5 = 10
A6 = 11
A7 = 1
A8 = 12, 23

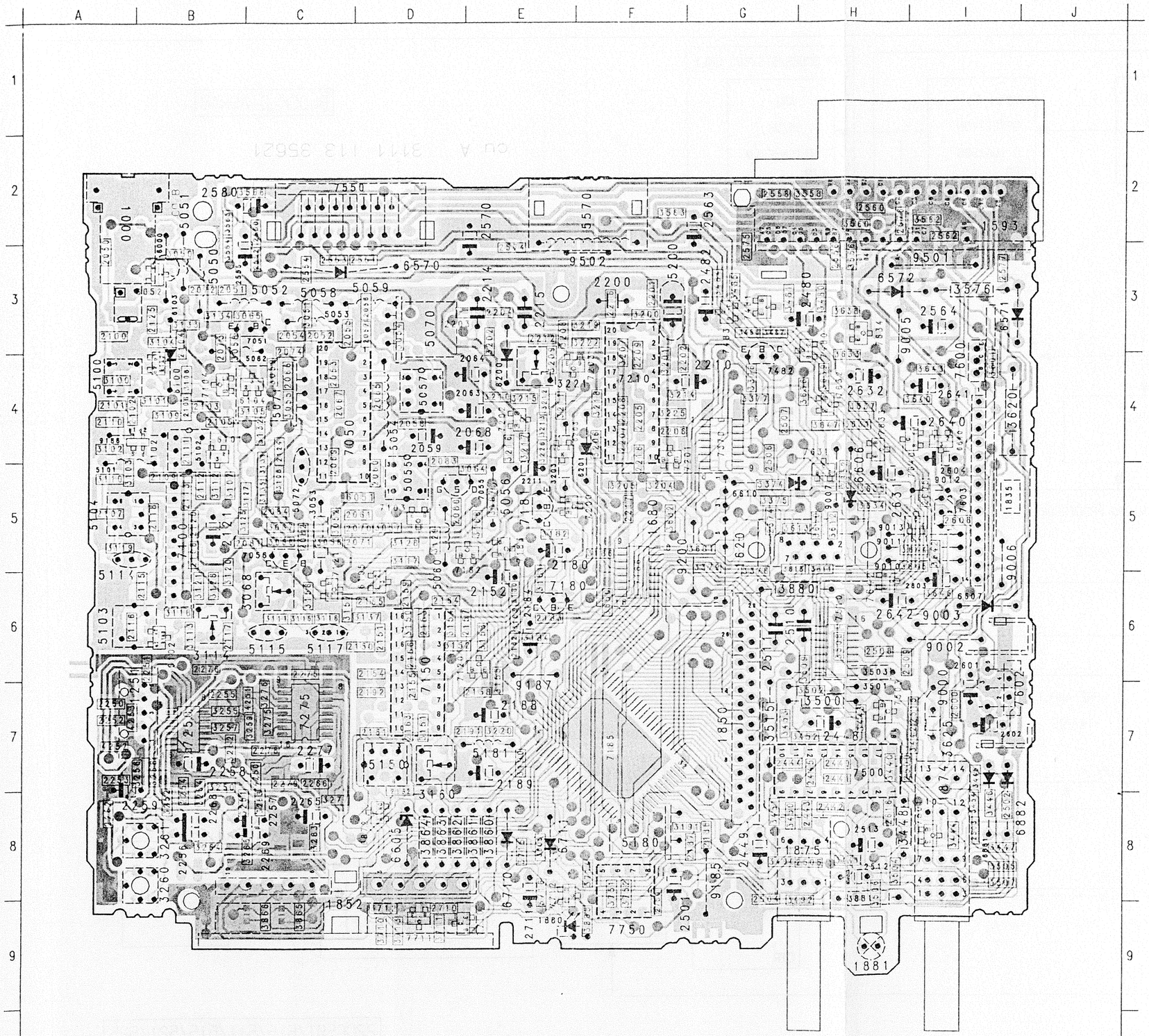
B1 = 7
B2 = 14
B3 = 15
B4 = 7
B5 = 6
B6 = 5
B7 = 5
B8 = 13

D1 = 10
D3 = 4
D4 = 3
D5 = 3
D6 = 2
D7 = 2

C1 = 16
C2 = 17
C3 = 18
C5 = 1
C6 = 23
C7 = 10
C8 = 20
C9 = 21
C10= 22

BLOCK DIAGRAM





THE MAIN PANEL LAYOUT IS COMPLETE FOR ALL VERSIONS
FOR DIFFERENCES PLEASE REFER TO DIFFERENT SHEMATIC DIAGRAMS

1000	2A	2207	4F	3054	3D	3257	7B	3751	8F	7480	3H
1251	7B	2208	4F	3055	4C	3258	7B	3752	8F	7481	3G
1593	2I	2209	4F	3056	5C	3259	7C	3860	8E	7482	4G
1620	5G	2210	4G	3057	5D	3260	8B	3861	8E	7483	3G
1680	5F	2211	5E	3058	3B	3261	8B	3862	8E	7500	7H
1835	5I	2212	3E	3059	4C	3262	7B	3863	8D	7501	8I
1850	7G	2214	3E	3064	5E	3263	8C	3864	8D	7503	7I
1852	9C	2215	3E	3065	3C	3264	8B	3865	9C	7510	6H
1874	7I	2216	3F	3066	5C	3265	8C	3866	9C	7550	2C
1875	8H	2217	5F	3067	5C	3275	7C	3880	6H	7600	4I
1880	9E	2218	4F	3068	6C	3276	7C	3881	8H	7602	7J
1881	9H	2250	7A	3100	4A	3277	8C	3885	9F	7603	5I
2050	3A	2251	6B	3101	4B	3374	5G	4250	7C	7631	4H
2051	3B	2252	7A	3102	4A	3375	5G	4251	7C	7632	4H
2052	3C	2253	7A	3103	5B	3376	4G	4252	7A	7633	4H
2053	4C	2254	7B	3104	3B	3377	4G	4253	7B	7634	3H
2054	3C	2255	7B	3105	4C	3378	6G	5050	3B	7640	5I
2055	3D	2256	8B	3106	4B	3379	5G	5051	2B	7641	5I
2056	3D	2257	8C	3107	5B	3440	7H	5052	3C	7642	6H
2057	3D	2258	7B	3108	5C	3441	8H	5053	3C	7710	9E
2058	4D	2259	8B	3109	4B	3442	7I	5054	4D	7711	9D
2059	4D	2262	8A	3110	5A	3443	7H	5055	5D	7712	8E
2060	5D	2265	8C	3111	6C	3444	8I	5056	5E	7750	9F
2061	5D	2266	7C	3112	5B	3445	7I	5057	4D	9000	7I
2063	4E	2268	8B	3113	6B	3446	8I	5058	3C	9002	6I
2064	4E	2269	8C	3114	6B	3447	8I	5059	3D	9003	6I
2065	4D	2275	6C	3115	6C	3448	8I	5060	6D	9005	3I
2066	4C	2276	6B	3116	6C	3450	8H	5062	4C	9006	5I
2067	4C	2277	7C	3117	5D	3451	8G	5070	3D	9007	5H
2068	4E	2278	7C	3118	6B	3452	7H	5071	4C	9010	5H
2069	4C	2279	7C	3119	5A	3453	7G	5072	5C	9011	5H
2070	5D	2374	5G	3120	5B	3454	8I	5100	4A	9012	5I
2071	5D	2440	7H	3121	6B	3480	3H	5101	5A	9013	5H
2072	3B	2441	7H	3125	5C	3481	3G	5102	4B	9185	8G
2073	3B	2442	8H	3126	6B	3484	3G	5103	6A	9186	4A
2074	3C	2443	8H	3127	5C	3485	3G	5104	5A	9187	7E
2080	5D	2444	7H	3128	5D	3486	3G	5114	6A	9200	5G
2081	5C	2445	7H	3129	5D	3487	3G	5115	6C	9501	3I
2082	5C	2448	7H	3131	5C	3490	8G	5117	6C	9502	3F
2083	4D	2449	8G	3132	4C	3492	9H	5150	7D		
2084	5C	2480	3H	3133	3B	3500	7H	5180	8F		
2100	3A	2482	3G	3134	3B	3501	7H	5181	7E		
2101	4A	2500	7I	3135	5C	3502	7H	5200	3F		
2102	4B	2501	9G	3137	6D	3503	6H	5570	2F		
2103	4B	2502	8I	3150	6D	3504	8H	6000	2B		
2104	3B	2503	8I	3151	7D	3505	8I	6051	5D		
2105	4B	2504	8G	3152	6E	3506	8H	6052	3B		
2106	4B	2505	8H	3153	6E	3507	8I	6100	4B		
2107	5A	2506	4G	3154	6D	3508	6H	6101	4B		
2108	5B	2507	4G	3155	6E	3509	6H	6102	6B		
2109	5B	2508	6H	3156	6C	3515	7G	6103	3B		
2110	4A	2509	6I	3157	6D	3556	3H	6104	4C		
2111	4B	2510	6H	3160	8D	3558	2H	6105	6D		
2112	5B	2511	6G	3180	6E	3560	2H	6200	4E		
2113	5B	2512	8H	3181	6E	3562	2I	6201	5F		
2115	6B	2513	8H	3182	5E	3563	2F	6203	4F		
2116	6B	2515	7I	3183	6E	3564	3B	6570	3D		
2117	6B	2550	2C	3184	6E	3565	2B	6571	3I		
2118	5B	2551	3D	3186	5F	3566	2C	6572	3H		
2120	5B	2552	3C	3187	5E	3576	3I	6605	8D		
2121	5B	2553	3C	3188	5E	3601	4I	6606	5H		
2124	4C	2554	3C	3190	7E	3605	8E	6607	6I		
2125	3B	2555	3B	3191	8G	3610	5H	6610	5G		
2150	6D	2556	3H	3200	3F	3611	5H	6640	4I		
2151	6D	2558	2G	3201	4F	3612	5H	6710	8E		
2152	6E	2560	2H	3202	3E	3613	5H	6711	8E		
2153	6D	2562	2I	3203	5E	3615	5H	6872	8D		
2154	6D	2563	2G	3204	5F	3620	4I	6881	8I		
2155	7D	2564	3I	3205	5F	3625	7I	6882	8J		
2156	6D	2570	2E	3206	4F	3631	4H	7050	4D		
2157	6E	2574	3E	3207	4F	3632	5H	7051	3C		
2158	7E	2575	3G	3208	3E	3633	4H	7055	5E		
2159	6D	2576	2I	3209	4E	3634	5H	7056	5C		
2161	7D	2577	3I	3210	4E	3635	5H	7100	5B		
2162	7D	2580	2B	3211	4E	3636	4H	7102	4B		
2163	7D	2600	7I	3212	4E	3637	4H	7103	5D		
2164	6D	2601	6I	3213	4E	3638	3H	7104	4B		
2165	6D	2602	7J	3214	4G	3639	4H	7120	6E		
2180	5F	2603	6I	3215	4E	3640	4I	7121	5C		
2182	6E	2604	5I	3216	4E	3642	5I	7150	6D		
2183	6E	2605	5I	3217	4E	3643	4I	7180	6E		
2184	6E	2606	5I	3218	4F	3644	5I	7180	6E		
2186	8G	2616	8H	3219	3F	3645	5I	7181	5E		
2187	8G	2631	5H	3220	7E	3646	6I	7182	5E		
2188	7E	2632	4H	3221	4F	3647	4H	7183	5E		
2189	7E	2640	4I	3222	3F	3650	6F	7185	7F		
2191	7E	2641	4I	3225	4F	3681	5G	7186	6F		
2192	7D	2642	6H	3226	4E	3682	5F	7200	5F		
2200	3F	2710	9D	3250	7B	3710	9D	7201	4G		
2201	3F	2711	9E	3251	8C	3711	9D	7202	4E		
2202	4G	2750	9F	3252	8B	3712	9D	7203	4F		
2203	3E	3050	3B	3253	8C	3713	9D	7210	4F		
2204	3E	3051	3C	3254	7B	3714	8F	7250	7B		
2205	4F	3052	5C	3255	7B	3715	8E	7275	7C		
2206	4F	3053	5C	3256	7B	3716	8E	7370	4G		

For checking and adjusting see general procedures

Check	SK				Setting of controls		
Demodulated FM levels	FM	93 MHz 1 mV Δf=22.5 KHz f mod = 1 KHz	B			5 160 mV ± 1 dB	
		93 MHz 1 mV Δf = 6.75 KHz f mod = 19 KHz				5 45 mV ± 1 dB	
Demodulated AM level	MW	1053 KHz 1 mV 1 KHz, 30% AM	A			250 mV ≤ 8 ≤ 500 mV	
VC FM	FM			87.5 MHz		7 > 1.0 V	
				108 MHz		7 < 6.5 V	
VC AM	LW			144 KHz		7 > 0.8 V	
	MW			1611 KHz		7 < 6.5 V	
Search level AM	MW	990 KHz 14µV	A			3 2.6 V DC 0.1 V	
Ref oscillator frequency						6 4.5MHz ± 180Hz	

Adjustment	SK					
FM oscillator	FM	87,5 MHz unmodulated	B	87,5 MHz	5103	1 0 V ± 50 mV 2
FM - IF	FM	87,5 MHz unmodulated	B	87,5 MHz	5104	3 max DC
FM - RF	FM	87,5 MHz unmodulated	B	87,5 MHz	5100	3 Max DC
		93 MHz 100 µV		93 MHz	5102	
		104 MHz unmodulated		104 MHz	3114	
FM limiting sensivity	FM	93 MHz 150µV Δf = 22.5 KHz f mod = 1 KHz	B	93 MHz	3160	3 -50mV ±10mV 4
Search level AM	MW	990 KHz 14µV modulated	A	990 KHz	3068	3 2.6 V DC

DC VOLTAGES

1680 SDK THIFI

1 = GND
2 = 3.1 V
3 = 0.0 V
5 = 0.0 V
6 = N.C.
10 = 8.5 V

7050 TEA6200

1 = 6.3 V AM
2 = 4.0 V AM
3 = 8.5 V AM
4 = 8.5 V AM
5 = 8.5 V AM
6 = 8.0 V AM
7 = 0.5 V AM
8 = 4.0 V AM
9 = 4.0 V AM
10 = 4.0 V AM
11 = 6.9 V AM
12 = 3.8 V AM
13 = 3.8 V AM
14 = 6.4 V AM / 0.2 V FM
15 = 4.8 V AM
16 = 4.8 V AM
17 = GND
18 = 5.6 V AM
19 = 0.9 V AM
20 = 7.4 V AM

7100 LA1177

1 = 8.2 V FM
2 = 8.2 V FM
3 = 7.2 V FM
4 = 2.0 V FM
5 = GND
6 = 5.0 V FM
7 = 1.6 V FM
8 = 4.5 V FM
9 = 8.1 V FM

7150 TDA1596

1 = 8.7 V
2 = 1.9 V
3 = 4.1 V
4 = 3.1 V
5 = 3.9 V
6 = 4.5 V
7 = 2.8 V
8 = 2.1 V
9 = 4.2 V
10 = 4.2 V
11 = 3.9 V
12 = 0.0 V
13 = 0.0 V
14 = 4.1 V
15 = GND
16 = 1.8 V
17 = 1.8 V
18 = 1.8 V

7186 HEF4094B

1 = 0.0 V
2 = 0.8 V
3 = 0.0 V
4 = 0.0 V
5 = 0.0 V
6 = 0.0 V
7 = 0.0 V
8 = 0.0 V
9 = N.C
10 = N.C.
11 = 0.0 V AM / 5.0 V FM
12 = 5.0 V
13 = 0.0 V
14 = 0.0 V
15 = 5.0 V
16 = 5.0 V

7210 TDA 1591

1 = 4.8 V
2 = 4.3V
3 = GND
4 = 3.0 V
5 = 8.7 V
6 = 2.2 V
7 = 2.2 V FM - 0.0 V AM
8 = 8.7 V
9 = 3.8 V
10 = 3.8 V
11 = 3.8 V
12 = 3.8 V
13 = 3.8 V
14 = 3.8 V
15 = 3.5 V
16 = 3.5 V
17 = 3.9 V
18 = 0.6 V
19 = 5.1 V
20 = 3.0 V

7750 ST 24C04 AB6

1 = GND
2 = GND
3 = GND
4 = GND
5 = 4.9 V SDA
6 = 4.9 V SCL
7 = GND
8 = 5 V

7250 TA7705

1 = 8.5 V
2 = 3.2 V
3 = 4.0 V > 0.0 V <
4 = 3.2 V
5 = 2.3 V
6 = 2.9 V
7 = 2.9 V
8 = 0.0 V
9 = 2.9 V
10 = N.C.
11 = 2.9 V
12 = 2.9 V
13 = 2.9 V
14 = 3.2 V
15 = 3.5 V
16 = 3.2 V

7370 HEF 4052

1 = 3.7 V
2 = 3.2 V
3 = 3.7 V
4 = 6.0 V
5 = GND
6 = 0.0 V
7 = GND
8 = GND
9 = 0.0 V
10 = 0.0 V
11 = 6.0 V
12 = 3.8 V
13 = 3.8 V
14 = GND
15 = 3.2 V
16 = 7.5 V

7500 TDA1526

1 = 1.2 V
2 = 8.5 V
3 = 8.5 V
4 = 4.4 V
5 = 4.2 V
6 = 3.8 V
7 = 1.9 V
8 = 4.6 V
9 = 1.9 V
10 = 2.1 V
11 = 4.5 V
12 = 2.0 V
13 = 3.8 V
14 = 4.0 V
15 = 4.4 V
16 = 1.8 V
17 = 3.8 V
18 = 0.0 V

7510 HEF 4052

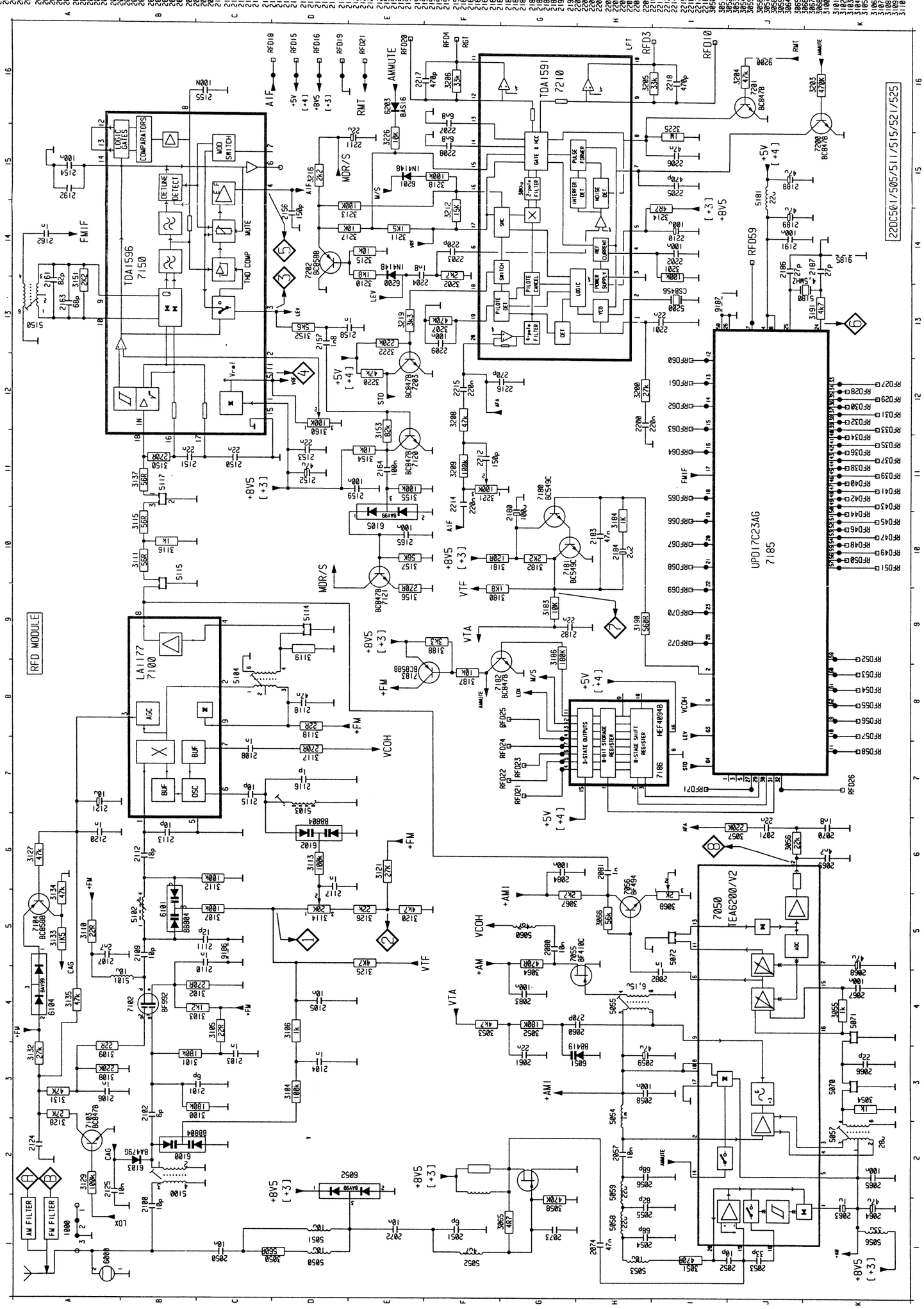
1 = 4.5 V
2 = GND
3 = 4.6 V
4 = GND
5 = 4.6 V
6 = GND
7 = GND
8 = GND
9 = GND
10 = 6.9 V
11 = GND
12 = 4.6 V
13 = 4.6 V
14 = 4.6 V
15 = GND
16 = 8.5 V

7550 TDA7370

1 = 6.7 V
2 = 6.7 V
3 = 14.4 V
4 = 0.7 V
5 = 0.7 V
6 = 0.7 V
7 = 3.0 V
8 = Earth
9 = GND
10 = NC
11 =0.7 V
12 =0.7 V
13 = 14.4 V
14 = 6.9 V
15 = 6.9 V

7602 L 4918

1 = 14.4 V
2 = 2.6 V
3 = GND
4 = GND
5 = 8.5 V


RFD MODULE
TDA1596 7150
TDA1591 7210
UPD17C23AG 7185
LA1177 7100
TEA6200/V2 7050
HEF4094B 7186
AM FILTER
FM FILTER
AIF
FMIF
MDR/S
VCOH
VTF
VTA
+AM
+FM
AMMUTE
RMT
+8V5 [+3]
+5V [+4]
22DC501/505/511/515/521/525

CTR MODULE

+8V5 [+3]

+5V [+4]

THICK_FILM_SDK 1680

RFD18 MPX 18

RFD60 SK-BK

52 DK RFD52

AGC

FOR DC505/515 ONLY

FMIF X17 Y17 RFD RFD

RFD25 DOLBY 25 254 RFD DEC

RFD70 ME/CHR 70 255 RFD DEC

RFD63 K7-IN 63 3610 10K

6610 BZX79-C4V7

RFD72 MOTOR 72 3611 1K

RFD61 REVERSE 258 61 3612 1K 3613 100k

RFD62 K7MT-SW 62 3615 10k

ON MUTE REV (NC)

1620 CASS.DECK P6

9007 [+1] +14V4

261 525 16 +8V5 [+3] 9002

L4918 7602

2601 10u 2602 10u 2600 100n

505 +14V4 [+2]

3625 4R7

9006 9003

6607 IN4002 513 +14V [+AERIAL]

ON/OFF ON- FHD ON+ FHD 3620 330 PR02

7600 ON4414

3601 1k

510 [+1] +14V4

LINE-MUTE PLOP

3633 4k7

3638 100k

507 MUTE APS mute

7634 BC847B

6640 BAV99

LM2931 7603

+5V [+4] 15

2606 1n 2603 47u

2605 1n

[+PERM] +14V4

[+BAT] +14V4

512

2604 220u

2640 47u

7641 BC847B

3646 4k7

3644 47k

2642 220u

7642 BC847B

3645 47k

7640 BC858B

3643 10k

3642 56k

3640 47k

2641 10u

9005

+8V5 [+3]

3605 1k

59 HOLD RFD59

6606 BZX79-C8V2

6605 BZX79-C4V7

3634 100k

3635 100k

3639 47k

3632 47k

3647 4R7

7632

7633 BC847B

2632 2u2

3637 100k

7631 BC847B

3631 4k7

3636 22k

2631 10u

7632 BC847B

+14V4 [+2]

FOR DC501/505 ONLY

FOR DC511/515 ONLY

+5V [+4]

3752 22k 3751 22k

SDA RFD66

RFD64 SCL

CONTROL LOGIC

ADDRESS CTR

MEMORY

REGISTER

REGISTER COMPARATOR

7750 ST24C02AB6

TEST

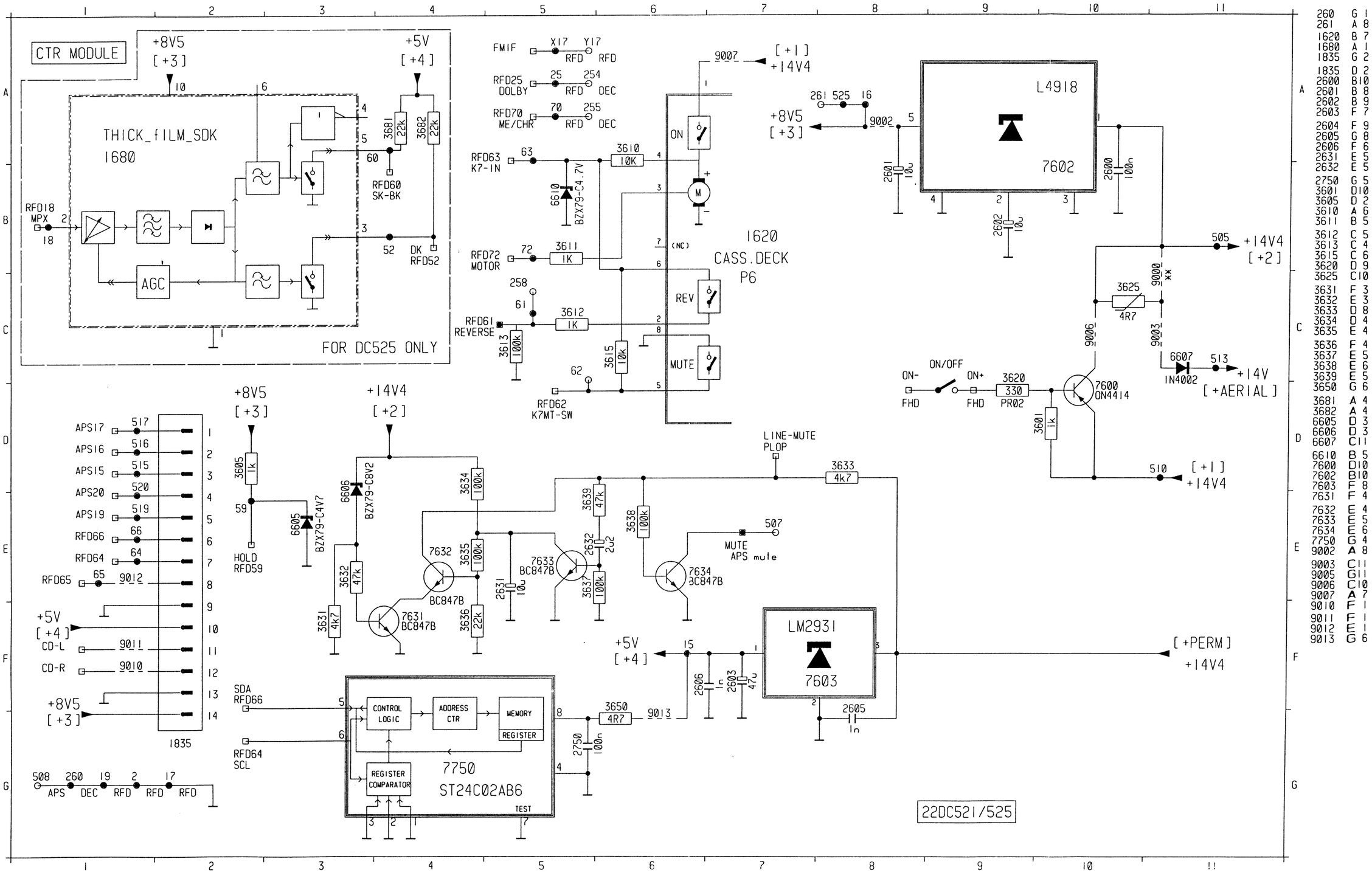
3650 4R7

9013

2750 100n

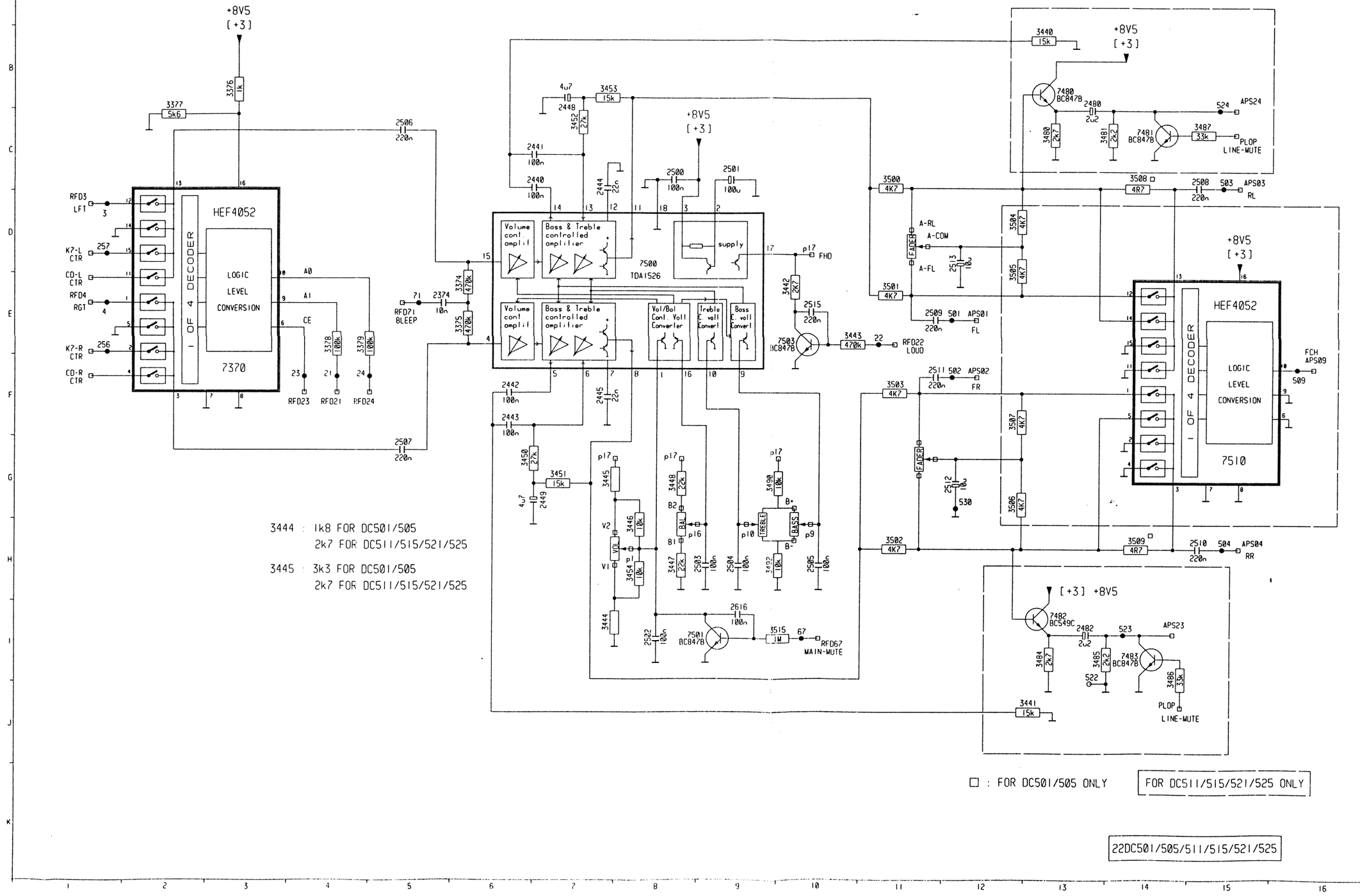
22DC501/505/511/515

1620	B 7	9002	A 8		
1680	A 1	9003	C 11		
2600	B 10	9005	G 11		
2601	B 8	9006	C 10		
2602	B 9	9007	A 7		
2603	F 7	9013	G 6		
2604	F 9				
2605	F 8				
2606	F 6				
2631	E 5				
2632	E 5				
2640	F 9				
2641	G 10				
2642	G 8				
2750	G 5				
3601	D 9				
3605	D 2				
3610	A 6				
3611	B 5				
3612	C 5				
3613	C 4				
3615	C 6				
3620	C 9				
3625	C 10				
3631	F 3				
3632	E 3				
3633	D 8				
3634	D 4				
3635	E 4				
3636	F 4				
3637	E 5				
3638	E 6				
3639	E 5				
3640	G 10				
3642	G 9				
3643	G 10				
3644	G 9				
3645	G 9				
3646	G 8				
3650	F 6				
3681	A 4				
3682	A 4				
3751	F 3				
3752	F 2				
6605	D 3				
6606	D 3				
6607	C 11				
6610	B 5				
6640	E 9				
7600	D 10				
7602	B 10				
7603	F 8				
7631	F 4				
7632	E 4				
7633	E 5				
7634	E 6				
7640	G 10				
7641	G 9				
7642	G 8				
7750	G 4				



260	G	1
261	A	8
1620	B	7
1680	A	1
1835	G	2
1835	D	2
2600	B	10
2601	B	8
2602	B	9
2603	F	7
2604	F	9
2605	G	8
2606	F	6
2631	E	5
2632	E	5
2750	G	5
3601	D	10
3605	D	2
3610	A	6
3611	B	5
3612	C	5
3613	C	4
3615	C	6
3620	D	9
3625	C	10
3631	F	3
3632	E	3
3633	D	8
3634	D	4
3635	E	4
3636	F	4
3637	E	5
3638	E	6
3639	E	5
3650	G	6
3681	A	4
3682	A	4
6605	D	3
6606	D	3
6607	C	11
6610	B	5
7600	D	10
7602	B	10
7603	F	8
7631	F	4
7632	E	4
7633	E	5
7634	E	6
7750	G	4
9002	A	8
9003	C	11
9005	G	11
9006	C	10
9007	A	7
9010	F	1
9011	F	1
9012	E	1
9013	G	6

SPM SIGNAL PROCESSING MODULE



3444 : 1k8 FOR DC501/505
2k7 FOR DC511/515/521/525

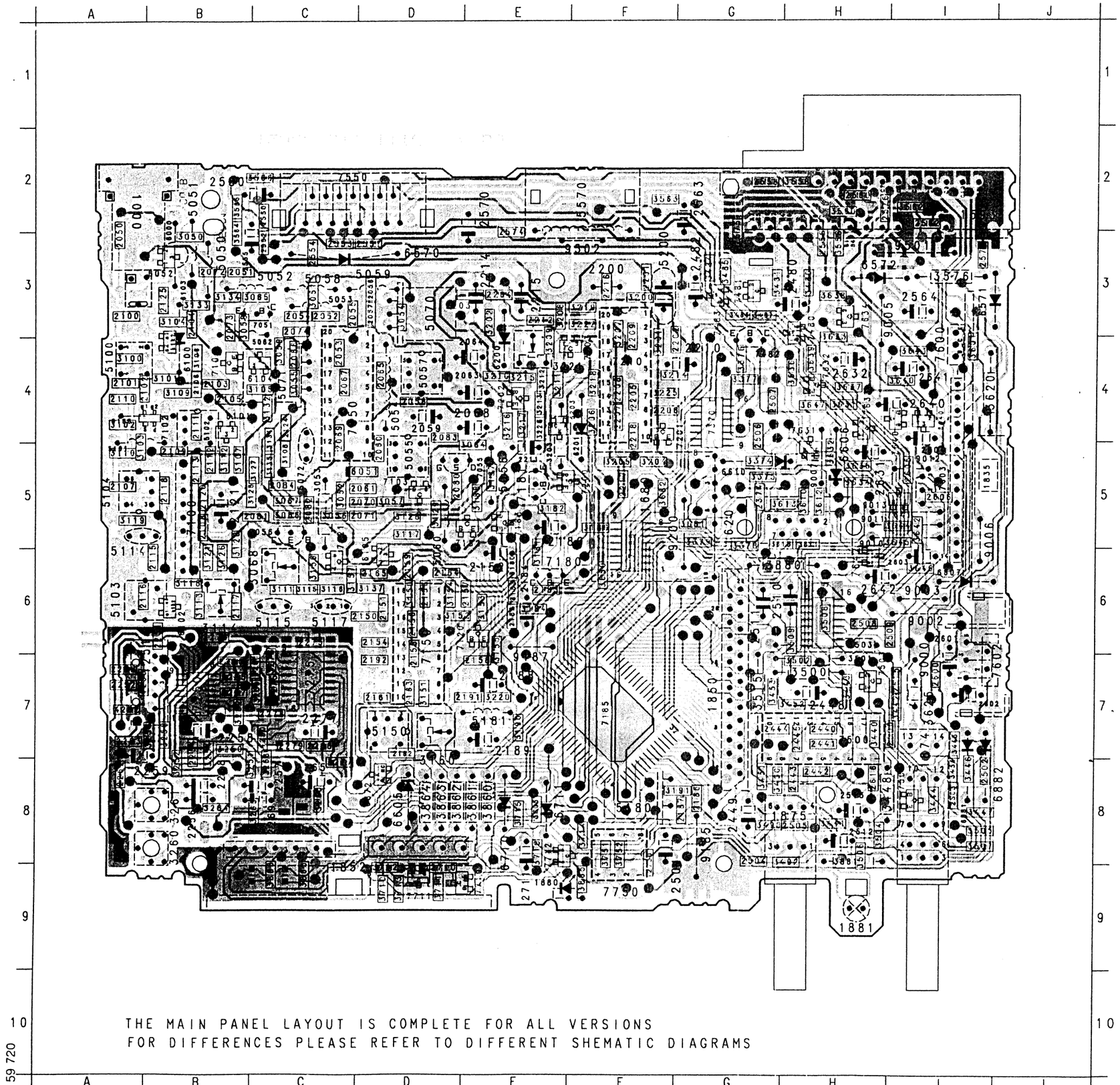
3445 : 3k3 FOR DC501/505
2k7 FOR DC511/515/521/525

□ : FOR DC501/505 ONLY

FOR DC511/515/521/525 ONLY

22DC501/505/511/515/521/525

2374 E 5
2440 E 6
2441 C 6
2442 F 6
2443 F 6
2444 C 7
2445 F 7
2448 B 7
2449 G 7
2480 B12
2482 G12
2500 C 8
2501 C 9
2502 I 8
2503 H 9
2504 H 9
2505 H10
2506 C 5
2507 G 5
2508 D15
2509 E12
2510 H15
2511 I12
2512 H12
2513 D12
2515 E10
2616 I 9
3374 E 6
3375 E 6
3376 B 3
3377 B 2
3378 E 4
3379 E 4
3440 C 6
3441 F 6
3442 E10
3443 E10
3444 I 8
3445 G 8
3446 H 8
3447 H 8
3448 G 8
3450 G 7
3451 G 7
3452 C 7
3453 B 7
3454 H 8
3480 B12
3481 B13
3484 G11
3485 G12
3486 G13
3487 B14
3490 G10
3492 H10
3500 C11
3501 E11
3502 H11
3503 I11
3504 D12
3505 D12
3506 H12
3507 I12
3508 D14
3509 H14
3515 I10
7370 F 3
7480 B12
7481 B13
7482 F11
7483 G12
7500 D 8
7501 I 9
7503 E10
7510 G15



1000	2A	2207	4F	3054	3D	3257	7B	3751	8F	7480	3H
1251	7B	2208	4F	3055	4C	3258	7B	3752	8F	7481	3G
1593	2I	2209	4F	3056	5C	3259	7C	3860	8E	7482	4G
1620	5G	2210	4G	3057	5D	3260	8B	3861	8E	7483	3G
1680	5F	2211	5E	3058	3B	3261	8B	3862	8E	7500	7H
1835	5I	2212	3E	3059	4C	3262	7B	3863	8D	7501	8I
1850	7G	2214	3E	3064	5E	3263	8C	3864	8D	7503	7I
1852	9C	2215	3E	3065	3C	3264	8B	3865	9C	7510	6H
1874	7I	2216	3F	3066	5C	3265	8C	3866	9C	7550	2C
1875	8H	2217	5F	3067	5C	3275	7C	3880	6H	7600	4I
1880	9E	2218	4F	3068	6C	3276	7C	3881	8H	7602	7J
1881	9H	2250	7A	3100	4A	3277	8C	3885	9F	7603	5I
2050	3A	2251	6B	3101	4B	3374	5G	4250	7C	7631	4H
2051	3B	2252	7A	3102	4A	3375	5G	4251	7C	7632	4H
2052	3C	2253	7A	3103	5B	3376	4G	4252	7A	7633	4H
2053	4C	2254	7B	3104	3B	3377	4G	4253	7B	7634	3H
2054	3C	2255	7B	3105	4C	3378	6G	5050	3B	7640	5I
2055	3D	2256	8B	3106	4B	3379	5G	5051	2B	7641	5I
2056	3D	2257	8C	3107	5B	3440	7H	5052	3C	7642	6H
2057	3D	2258	7B	3108	5C	3441	8H	5053	3C	7710	9E
2058	4D	2259	8B	3109	4B	3442	7I	5054	4D	7711	9D
2059	4D	2262	8A	3110	5A	3443	7H	5055	5D	7712	8E
2060	5D	2265	8C	3111	6C	3444	8I	5056	5E	7750	9F
2061	5D	2266	7C	3112	5B	3445	7I	5057	4D	9000	7I
2063	4E	2268	8B	3113	6B	3446	8I	5058	3C	9002	6I
2064	4E	2269	8C	3114	6B	3447	8I	5059	3D	9003	6I
2065	4D	2275	6C	3115	6C	3448	8I	5060	6D	9005	3I
2066	4C	2276	6B	3116	6C	3450	8H	5062	4C	9006	5I
2067	4C	2277	7C	3117	5D	3451	8G	5070	3D	9007	5H
2068	4E	2278	7C	3118	6B	3452	7H	5071	4C	9010	5H
2069	4C	2279	7C	3119	5A	3453	7G	5072	5C	9011	5H
2070	5D	2374	5G	3120	5B	3454	8I	5100	4A	9012	5I
2071	5D	2440	7H	3121	6B	3480	3H	5101	5A	9013	5H
2072	3B	2441	7H	3125	5C	3481	3G	5102	4B	9185	8G
2073	3B	2442	8H	3126	6B	3484	3G	5103	6A	9186	4A
2074	3C	2443	8H	3127	5C	3485	3G	5104	5A	9187	7E
2080	5D	2444	7H	3128	5D	3486	3G	5114	6A	9200	5G
2081	5C	2445	7H	3129	5D	3487	3G	5115	6C	9501	3I
2082	5C	2448	7H	3131	5C	3490	8G	5117	6C	9502	3F
2083	4D	2449	8G	3132	4C	3492	9H	5150	7D		
2084	5C	2480	3H	3133	3B	3500	7H	5180	8F		
2100	3A	2482	3G	3134	3B	3501	7H	5181	7E		
2101	4A	2500	7I	3135	5C	3502	7H	5200	3F		
2102	4B	2501	9G	3137	6D	3503	6H	5570	2F		
2103	4B	2502	8I	3150	6D	3504	8H	6000	2B		
2104	3B	2503	8I	3151	7D	3505	8I	6051	5D		
2105	4B	2504	8G	3152	6E	3506	8H	6052	3B		
2106	4B	2505	8H	3153	6E	3507	8I	6100	4B		
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2108	5B	2507	4G	3155	6E	3509	6H	6102	6B		
2109	5B	2508	6H	3156	6C	3515	7G	6103	3B		
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2111	4B	2510	6H	3160	8D	3558	2H	6105	6D		
2112	5B	2511	6G	3180	6E	3560	2H	6200	4E		
2113	5B	2512	8H	3181	6E	3562	2I	6201	5F		
2115	6B	2513	8H	3182	5E	3563	2F	6203	4F		
2116	6B	2515	7I	3183	6E	3564	3B	6570	3D		
2117	6B	2550	2C	3184	6E	3565	2B	6571	3I		
2118	5B	2551	3D	3186	5F	3566	2C	6572	3H		
2120	5B	2552	3C	3187	5E	3576	3I	6605	8D		
2121	5B	2553	3C	3188	5E	3601	4I	6606	5H		
2124	4C	2554	3C	3190	7E	3605	8E	6607	6I		
2125	3B	2555	3B	3191	8G	3610	5H	6610	5G		
2150	6D	2556	3H	3200	3F	3611	5H	6640	4I		
2151	6D	2558	2G	3201	4F	3612	5H	6710	8E		
2152	6E	2560	2H	3202	3E	3613	5H	6711	8E		
2153	6D	2562	2I	3203	5E	3615	5H	6872	8D		
2154	6D	2563	2G	3204	5F	3620	4I	6881	8I		
2155	7D	2564	3I	3205	5F	3625	7I	6882	8J		
2156	6D	2570	2E	3206	4F	3631	4H	7050	4D		
2157	6E	2574	3E	3207	4F	3632	5H	7051	3C		
2158	7E	2575	3G	3208	3E	3633	4H	7055	5E		
2159	6D	2576	2I	3209	4E	3634	5H	7056	5C		
2161	7D	2577	3I	3210	4E	3635	5H	7100	5B		
2162	7D	2580	2B	3211	4E	3636	4H	7102	4B		
2163	7D	2600	7I	3212	4E	3637	4H	7103	5D		
2164	6D	2601	6I	3213	4E	3638	3H	7104	4B		
2165	6D	2602	7J	3214	4G	3639	4H	7120	6E		
2180	5F	2603	6I	3215	4E	3640	4I	7121	5C		
2182	6E	2604	5I	3216	4E	3642	5I	7150	6D		
2183	6E	2605	5I	3217	4E	3643	4I	7180	6E		
2184	6E	2606	5I	3218	4F	3644	5I	7180	6E		
2186	8G	2616	8H	3219	3F	3645	5I	7181	5E		
2187	8G	2631	5H	3220	7E	3646	6I	7182	5E		
2188	7E	2632	4H	3221	4F	3647	4H	7183	5E		
2189	7E	2640	4I	3222	3F	3650	6F	7185	7F		
2191	7E	2641	4I	3225	4F	3681	5G	7186	6F		
2192	7D	2642	6H	3226	4E	3682	5F	7200	5F		
2200	3F	2710	9D	3250	7B	3710	9D	7201	4G		
2201	3F	2711	9E	3251	8C	3711	9D	7202	4E		
2202	4G	2750	9F	3252	8B	3712	9D	7203	4F		
2203	3E	3050	3B	3253	8C	3713	9D	7210	4F		
2204	3E	3051	3C	3254	7B	3714	8F	7250	7B		
2205	4F	3052	5C	3255	7B	3715	8E	7275	7C		
2206	4F	3053	5C	3256	7B	3716	8E	7370	4G		

DECK MODULE

SUPPLY
V MAX: 10 V
V TYP: 8.5 V
V MIN: 7.0 V

+8V5 [+3]

L REV
L FRWD
R REV
R FRWD
1251

2251 560p
2253 560p
2250 560p
2252 560p
2259 10µ

TA7705
7250

BIAS

2268 100µ
3253 120
2255 2n7
3255 1M
3259 56K
2254 2n7
3254 1M
3258 56K
3252 120
2269 100µ
3262 47K

ME/CHR
REVERSE
K7MT

2265 100µ
2266 22n

+8V5 [+3]
8v5+3
DBon
DB-R
ADJ-R
ADJ-L
DB-L
GND

4251 4R7
4250 4R7

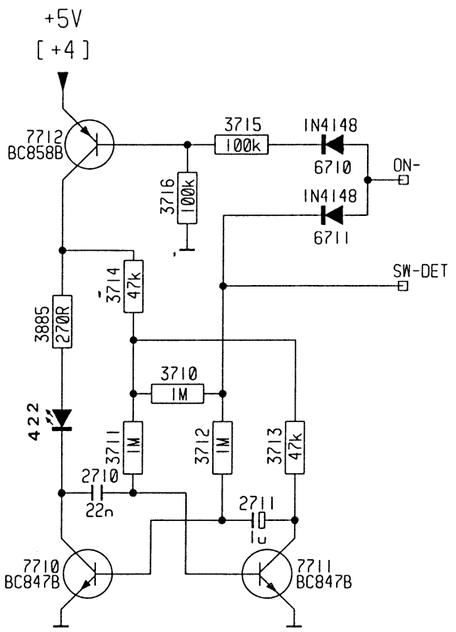
REC/PB
NR ON/OFF
ATT 1
ATT 2
ATT 3
SC
DET
BIAS
REF

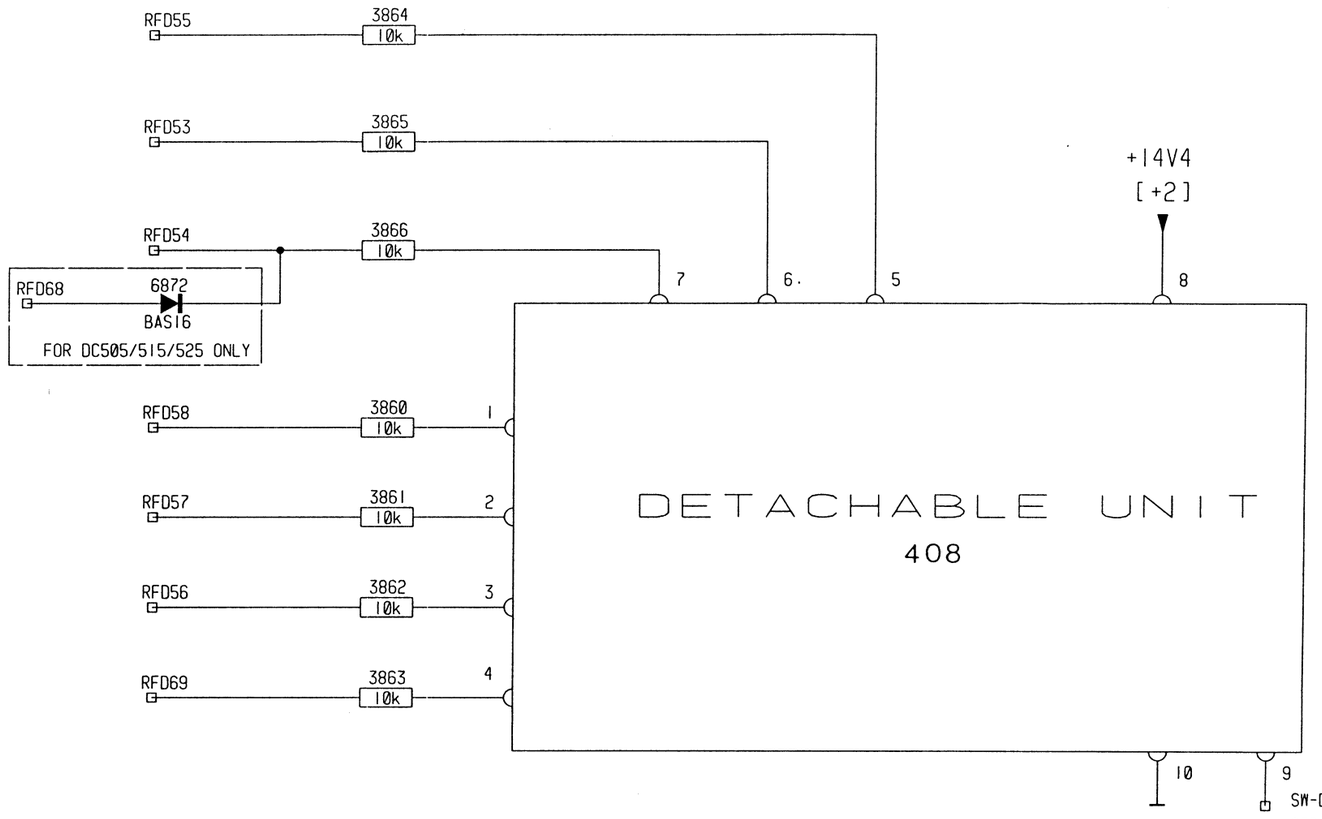
Note: Components without item number are alternative components not used in these versions

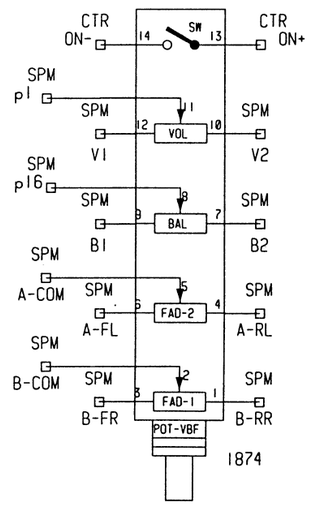
22DC501/505/511/515/521/525

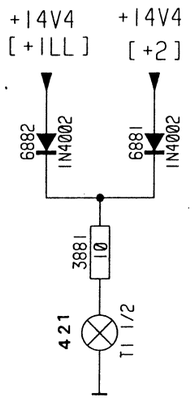
1251	C	1
2250	D	2
2251	B	2
2252	E	2
2253	C	2
2254	D	5
2255	C	5
2256	E	5
2257	B	5
2258	F	2
2259	D	2
2262	E	7
2265	A	7
2266	A	8
2268	B	5
2269	E	5
2275	C	11
2276	E	11
2277	F	9
2277	F	9
2278	C	7
2279	D	7
3250	E	5
3251	B	5
3252	E	6
3253	B	6
3254	D	6
3255	C	6
3256	D	5
3257	C	5
3258	D	6
3259	C	6
3260	E	5
3261	B	5
3262	F	3
3263	E	2
3264	E	6
3265	B	6
3275	F	9
3276	B	9
3277	B	10
4250	E	11
4251	B	11
4252	C	1
4253	D	1
7250	E	4
7251	F	7
7275	C	9

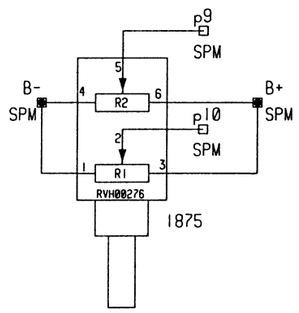
FRONT PART

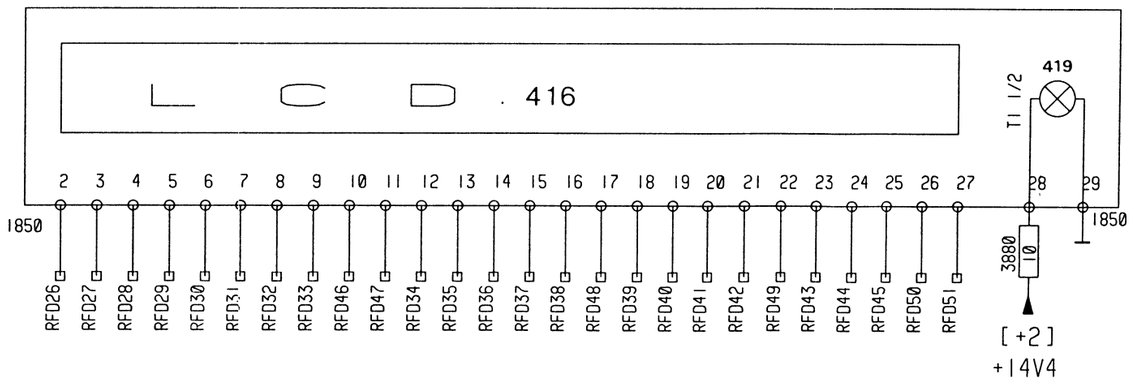






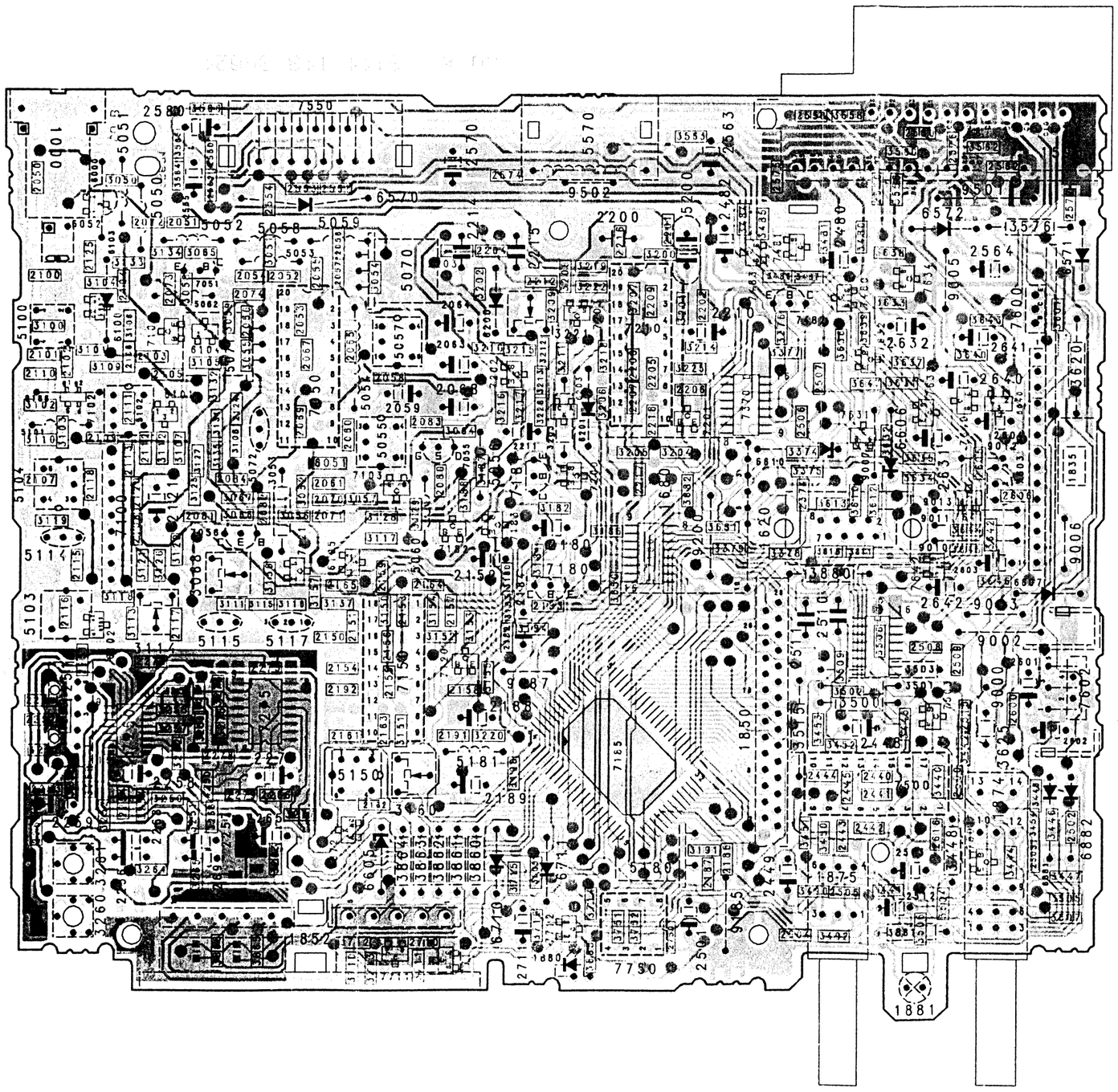






22DC501/505/511/515/521/525

1874	G	1
1875	G	4
2710	D	2
2711	D	3
3710	C	2
3711	C	2
3712	C	2
3713	C	3
3714	C	2
3715	B	3
3716	B	2
3860	C	6
3861	C	6
3862	D	6
3863	D	6
3864	A	6
3865	A	6
3866	B	6
3880	G	11
3881	F	3
3885	C	1
6710	B	3
6711	B	3
6872	B	5
6881	E	3
6882	E	3
7710	D	2
7711	D	3
7712	B	2



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1251	7B	2208	4F	3055	4C	3258	7B	3752	8F	7481	3G
1593	2I	2209	4F	3056	5C	3259	7C	3860	8E	7482	4G
1620	5G	2210	4G	3057	5D	3260	8B	3861	8E	7483	3G
1680	5F	2211	5E	3058	3B	3261	8B	3862	8E	7500	7H
1835	5I	2212	3E	3059	4C	3262	7B	3863	8D	7501	8I
1850	7G	2214	3E	3064	5E	3263	8C	3864	8D	7503	7I
1852	9C	2215	3E	3065	3C	3264	8B	3865	9C	7510	6H
1874	7I	2216	3F	3066	5C	3265	8C	3866	9C	7550	2C
1875	8H	2217	5F	3067	5C	3275	7C	3880	6H	7600	4I
1880	9E	2218	4F	3068	6C	3276	7C	3881	8H	7602	7J
1881	9H	2250	7A	3100	4A	3277	8C	3885	9F	7603	5I
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2051	3B	2252	7A	3102	4A	3375	5G	4251	7C	7632	4H
2052	3C	2253	7A	3103	5B	3376	4G	4252	7A	7633	4H
2053	4C	2254	7B	3104	3B	3377	4G	4253	7B	7634	3H
2054	3C	2255	7B	3105	4C	3378	6G	5050	3B	7640	5I
2055	3D	2256	8B	3106	4B	3379	5G	5051	2B	7641	5I
2056	3D	2257	8C	3107	5B	3440	7H	5052	3C	7642	6H
2057	3D	2258	7B	3108	5C	3441	8H	5053	3C	7710	9E
2058	4D	2259	8B	3109	4B	3442	7I	5054	4D	7711	9D
2059	4D	2262	8A	3110	5A	3443	7H	5055	5D	7712	8E
2060	5D	2265	8C	3111	6C	3444	8I	5056	5E	7750	9F
2061	5D	2266	7C	3112	5B	3445	7I	5057	4D	9000	7I
2063	4E	2268	8B	3113	6B	3446	8I	5058	3C	9002	6I
2064	4E	2269	8C	3114	6B	3447	8I	5059	3D	9003	6I
2065	4D	2275	6C	3115	6C	3448	8I	5060	6D	9005	3I
2066	4C	2276	6B	3116	6C	3450	8H	5062	4C	9006	5I
2067	4C	2277	7C	3117	5D	3451	8G	5070	3D	9007	5H
2068	4E	2278	7C	3118	6B	3452	7H	5071	4C	9010	5H
2069	4C	2279	7C	3119	5A	3453	7G	5072	5C	9011	5H
2070	5D	2374	5G	3120	5B	3454	8I	5100	4A	9012	5I
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2072	3B	2441	7H	3125	5C	3481	3G	5102	4B	9185	8G
2073	3B	2442	8H	3126	6B	3484	3G	5103	6A	9186	4A
2074	3C	2443	8H	3127	5C	3485	3G	5104	5A	9187	7E
2080	5D	2444	7H	3128	5D	3486	3G	5114	6A	9200	5G
2081	5C	2445	7H	3129	5D	3487	3G	5115	6C	9501	3I
2082	5C	2448	7H	3131	5C	3490	8G	5117	6C	9502	3F
2083	4D	2449	8G	3132	4C	3492	9H	5150	7D		
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2100	3A	2482	3G	3134	3B	3501	7H	5181	7E		
2101	4A	2500	7I	3135	5C	3502	7H	5200	3F		
2102	4B	2501	9G	3137	6D	3503	6H	5570	2F		
2103	4B	2502	8I	3150	6D	3504	8H	6000	2B		
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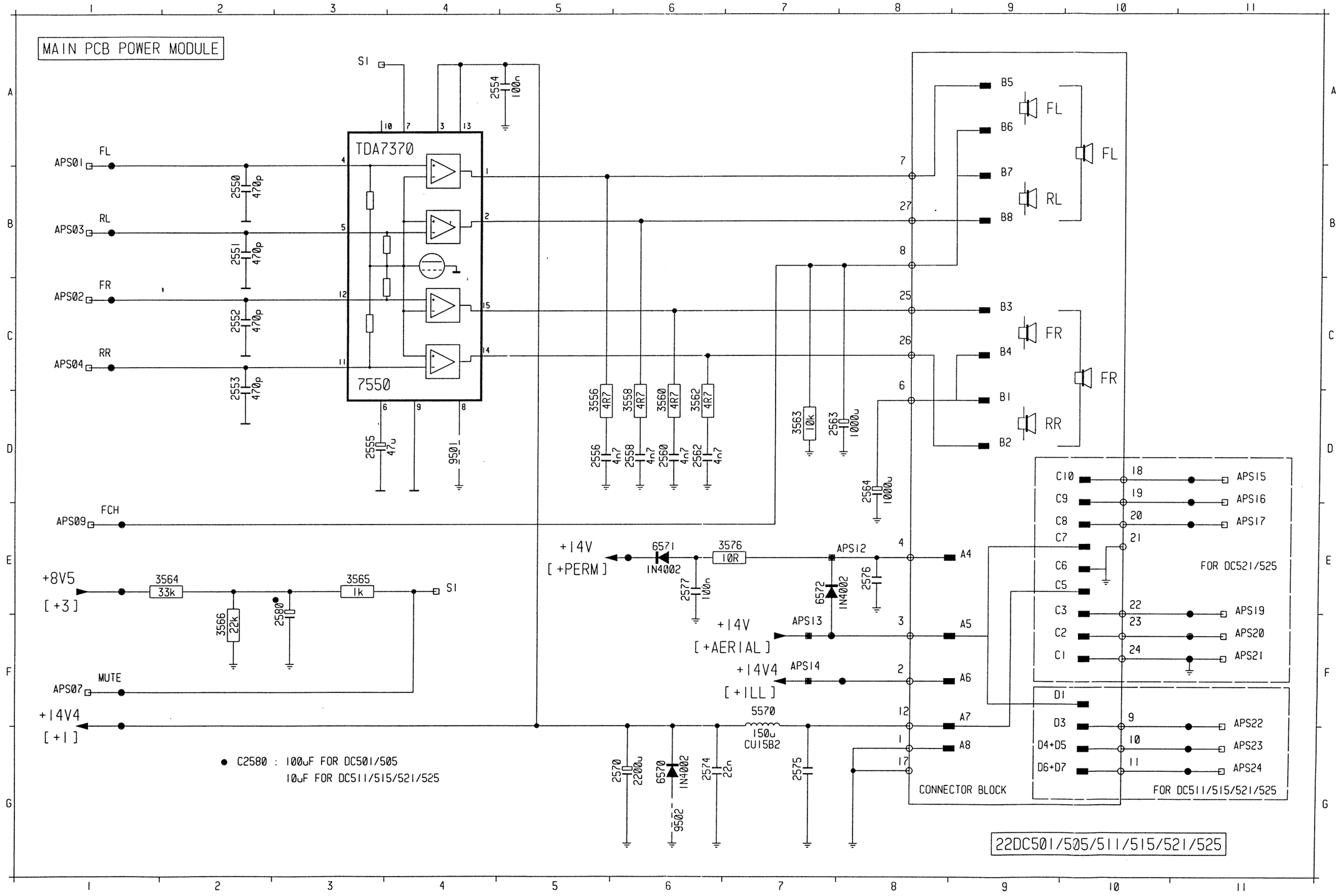
2106	4B	2505	8H	3153	6E	3507	8I	6100	4B		
2107	5A	2506	4G	3154	6D	3508	6H	6101	4B		
2108	5B	2507	4G	3155	6E	3509	6H	6102	6B		
2109	5B	2508	6H	3156	6C	3515	7G	6103	3B		
2110	4A	2509	6I	3157	6D	3556	3H	6104	4C		
2111	4B	2510	6H	3160	8D	3558	2H	6105	6D		
2112	5B	2511	6G	3180	6E	3560	2H	6200	4E		
2113	5B	2512	8H	3181	6E	3562	2I	6201	5F		
2115	6B	2513	8H	3182	5E	3563	2F	6203	4F		
2116	6B	2515	7I	3183	6E	3564	3B	6570	3D		
2117	6B	2550	2C	3184	6E	3565	2B	6571	3I		
2118	5B	2551	3D	3186	5F	3566	2C	6572	3H		
2120	5B	2552	3C	3187	5E	3576	3I	6605	8D		
2121	5B	2553	3C	3188	5E	3601	4I	6606	5H		
2124	4C	2554	3C	3190	7E	3605	8E	6607	6I		
2125	3B	2555	3B	3191	8G	3610	5H	6610	5G		
2150	6D	2556	3H	3200	3F	3611	5H	6640	4I		
2151	6D	2558	2G	3201	4F	3612	5H	6710	8E		
2152	6E	2560	2H	3202	3E	3613	5H	6711	8E		
2153	6D	2562	2I	3203	5E	3615	5H	6872	8D		
2154	6D	2563	2G	3204	5F	3620	4I	6881	8I		
2155	7D	2564	3I	3205	5F	3625	7I	6882	8J		
2156	6D	2570	2E	3206	4F	3631	4H	7050	4D		
2157	6E	2574	3E	3207	4F	3632	5H	7051	3C		
2158	7E	2575	3G	3208	3E	3633	4H	7055	5E		
2159	6D	2576	2I	3209	4E	3634	5H	7056	5C		
2161	7D	2577	3I	3210	4E	3635	5H	7100	5B		
2162	7D	2580	2B	3211	4E	3636	4H	7102	4B		
2163	7D	2600	7I	3212	4E	3637	4H	7103	5D		
2164	6D	2601	6I	3213	4E	3638	3H	7104	4B		
2165	6D	2602	7J	3214	4G	3639	4H	7120	6E		
2180	5F	2603	6I	3215	4E	3640	4I	7121	5C		
2182	6E	2604	5I	3216	4E	3642	5I	7150	6D		
2183	6E	2605	5I	3217	4E	3643	4I	7180	6E		
2184	6E	2606	5I	3218	4F	3644	5I	7180	6E		
2186	8G	2616	8H	3219	3F	3645	5I	7181	5E		
2187	8G	2631	5H	3220	7E	3646	6I	7182	5E		
2188	7E	2632	4H	3221	4F	3647	4H	7183	5E		
2189	7E	2640	4I	3222	3F	3650	6F	7185	7F		
2191	7E	2641	4I	3225	4F	3681	5G	7186	6F		
2192	7D	2642	6H	3226	4E	3682	5F	7200	5F		
2200	3F	2710	9D	3250	7B	3710	9D	7201	4G		
2201	3F	2711	9E	3251	8C	3711	9D	7202	4E		
2202	4G	2750	9F	3252	8B	3712	9D	7203	4F		
2203	3E	3050	3B	3253	8C	3713	9D	7210	4F		
2204	3E	3051	3C	3254	7B	3714	8F	7250	7B		
2205	4F	3052	5C	3255	7B	3715	8E	7275	7C		
2206	4F	3053	5C	3256	7B	3716	8E	7370	4G		



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2551	B	2
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2558	D	6
2560	D	6
2562	D	6
2563	D	8
2564	D	8
2570	G	6
2574	G	6
2575	G	7
2576	E	8
2577	E	6
2580	E	3
3556	D	5
3558	D	6
3560	D	6
3562	D	6
3563	D	7
3564	E	2
3565	E	3
3566	F	2
3576	E	7
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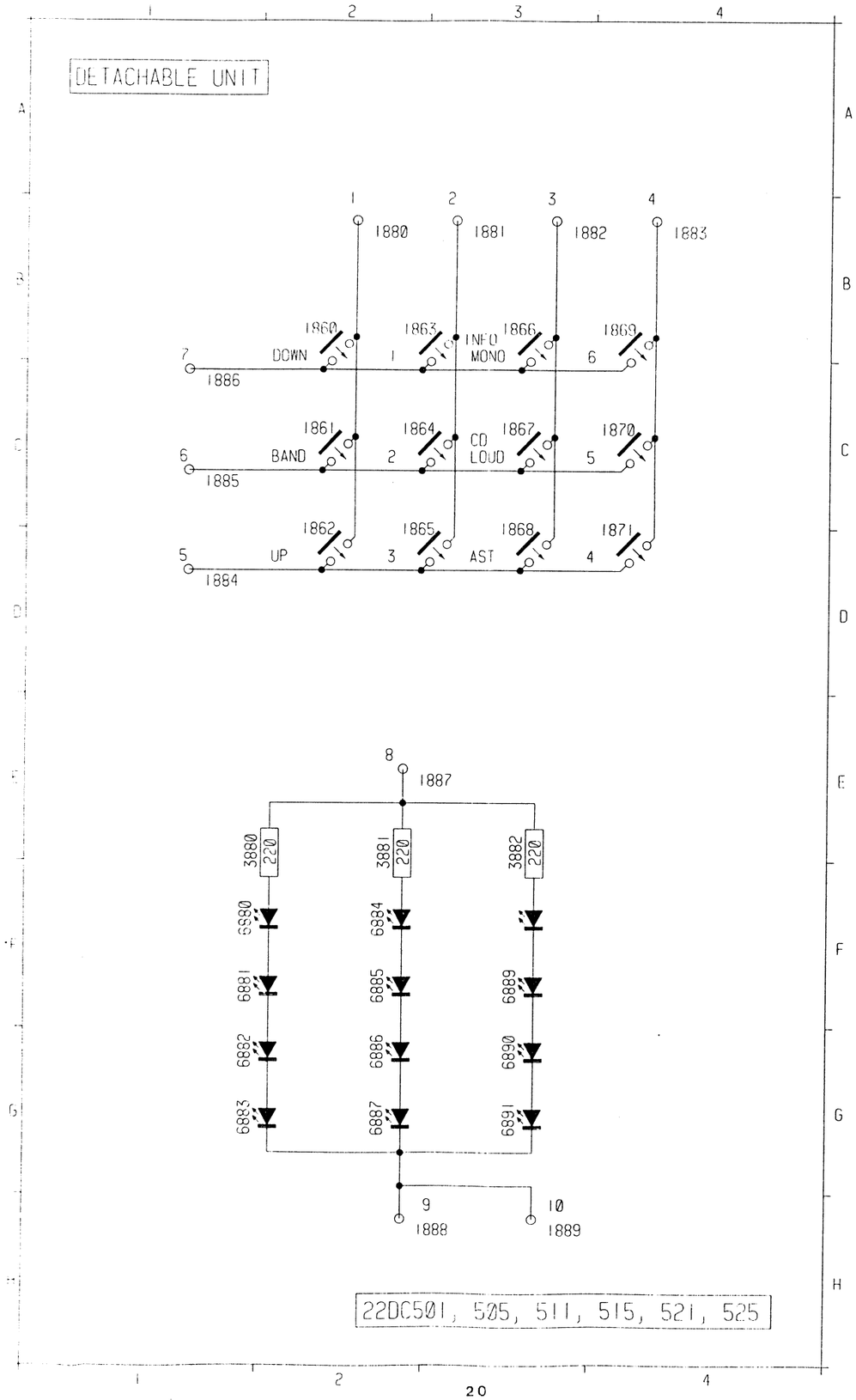
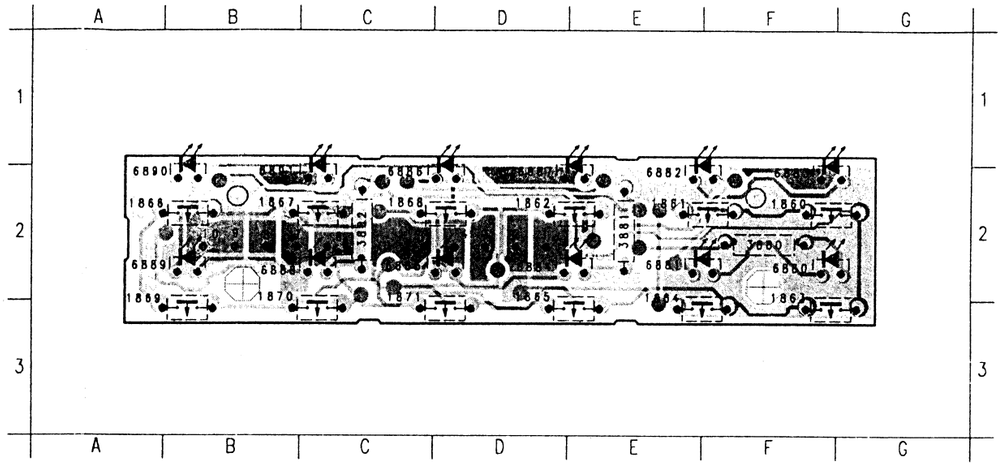
6570	G	6
6571	E	6
6572	E	7
7550	C	3
9501	D	4
9502	G	6



1860 B 2
1861 C 2
1862 D 2
1863 B 2
1864 C 2
1865 D 2
1866 B 3
1867 C 3
1868 D 3
1869 B 4
1870 C 4
1871 D 4
1880 B 2
1881 B 3
1882 B 3
1883 B 4
1884 D 1
1885 C 1
1886 C 1
1887 E 2
1888 H 2
1889 H 3
3880 E 1
3881 E 2
3882 E 3
6880 F 1
6881 F 1
6882 G 1
6883 G 1
6884 F 2
6885 F 2
6886 G 2
6887 G 2
6888 F 3
6889 F 3
6890 G 3
6891 G 3



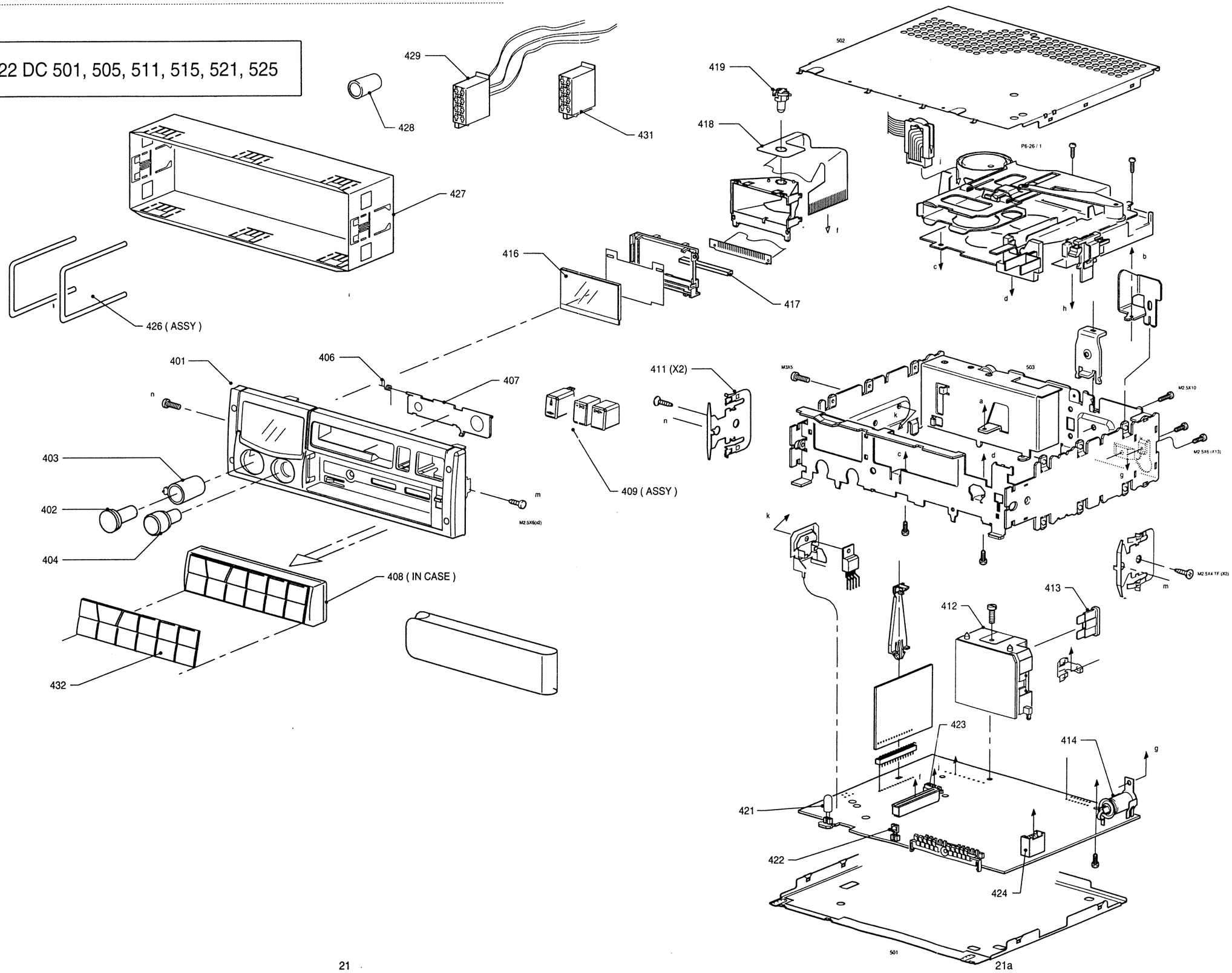
1860 F 2
1861 E 2
1862 D 2
1863 F 3
1864 E 3
1865 D 3
1866 A 2
1867 B 2
1868 C 2
1869 A 3
1870 B 3
1871 C 3
3880 F 2
3881 E 2
3882 C 2
6880 F 2
6881 E 2
6882 E 2
6883 F 2
6884 D 2
6885 C 2
6886 C 2
6887 D 2
6888 B 2
6889 A 2
6890 A 2
6891 B 2

Mechanical Partslist

401	4822 459 50694	FRONT DC501	413	4822 071 25002	FUSE T5A 250V
401	4822 459 50702	FRONT DC505	414	4822 267 30883	AERIAL BUSH ASSY
401	4822 459 50699	FRONT DC511	416	4822 130 91101	LCD LPH5441-1
401	4822 459 50701	FRONT DC515	417	4822 466 62188	LCD CONNECTOR
401	4822 459 61207	FRONT DC521	418	4822 321 61565	FLEX FOIL
401	4822 459 50704	FRONT DC525	419	4822 134 41111	LAMP FLEXBASE 14V
402	4822 413 31695	KNOB VOLUME	421	4822 134 41112	LAMP 14V 80MA
403	4822 413 31697	FADER LEVER	422	4822 130 82996	LED RED
404	4822 413 31696	KNOB TONE	423	4822 267 50872	CONNECTOR DECK
406	4822 492 71033	FLAP SPRING	424	4822 267 40818	CONNECTOR DECK HEAD
407	4822 443 41139	FLAP CASSETTE	426	4822 404 20437	DEMOUNTING BRACKETS
408	4822 691 10369	DET. UNIT DC501/ 511	427	4822 443 30463	SLEEVE
408	4822 691 10371	DET. UNIT DC505/ 515	428	4822 532 11092	BUFFER MOUNTING
408	4822 691 10373	DET. UNIT DC521	429	4822 321 10551	CABLE ADAPTER SUPPLY
408	4822 691 10372	DET. UNIT DC525	431	4822 267 41052	LOUDSPEAKER CONNECT
409	4822 410 61842	SET OF BUTTONS DECK	432	4822 410 61886	BUTTONS DC501/ 511
411	4822 492 71046	SPRING	432	4822 410 61887	BUTTONS DC505/ 515
412	4822 290 61081	CONN. BLOCK DC501/ 505	432	4822 410 61888	BUTTONS DC521
412	4822 290 61083	CONN. BLOCK DC511/ 515	432	4822 410 61889	BUTTONS DC525
412	4822 290 61082	CONN. BLOCK DC521/ 525			

22DC501/505/511/515/521/525

22 DC 501, 505, 511, 515, 521, 525



Miscellaneous		
1680	4822 214 51674	THICK FILM VKF1
1850	4822 267 60324	CONNECTOR 29P
1860	4822 276 13103	SWITCH
1861	4822 276 13103	SWITCH
1862	4822 276 13103	SWITCH
1863	4822 276 13103	SWITCH
1864	4822 276 13103	SWITCH
1865	4822 276 13103	SWITCH
1866	4822 276 13103	SWITCH
1867	4822 276 13103	SWITCH
1868	4822 276 13103	SWITCH
1869	4822 276 13103	SWITCH
1870	4822 276 13103	SWITCH
1871	4822 276 13103	SWITCH
1874	4822 100 30171	POTMETER
1875	4822 100 20855	POTMETER
1880	4822 256 30483	LAMP HOLDER
1881	4822 256 30483	LAMP HOLDER

2050	5322 122 31647	1NF 10% X7R 63V
2051	4822 126 10205	6PF NP0 50V
2052	4822 122 31971	10PF 10% 50V
2053	5322 122 32659	33PF 5% 50V
2054	4822 122 33514	68PF 5% NP0 50V
2055	4822 122 33515	82PF 5% NP0 63V
2056	4822 122 33514	68PF 5% NP0 50V
2057	4822 122 33177	10NF 20% X7R 50V
2058	4822 122 33496	100NF 10% X7R 63V
2059	4822 124 23624	47 µF 20% 16V
2060	4822 122 33216	270PF 5% NP0 50V
2061	4822 122 33555	22NF 10%
2063	4822 124 41969	1 µF 20% 50V
2064	4822 124 23624	47 µF 20% 16V
2065	4822 122 33496	100NF 10% X7R 63V
2066	5322 122 32658	22PF 5% 50V
2067	4822 122 33496	100NF 10% X7R 63V
2068	4822 124 23624	47 µF 20% 16V
2069	4822 122 33339	4,7NF 10% X7R 50V
2070	4822 122 33219	1,8NF 10% X7R 50V
2071	4822 122 33555	22NF 10%
2072	4822 122 33177	10NF 20% X7R 50V
2074	4822 122 32542	47NF 10%7R 63V
2080	4822 122 33177	10NF 20% X7R 50V
2081	4822 122 33837	1NF 10% X7R 50V
2082	4822 122 33837	1NF 10% X7R 50V
2083	4822 122 33496	100NF 10% X7R 63V
2084	4822 122 33496	100NF 10% X7R 63V
2100	4822 122 31971	10PF 10% 50V
2101	4822 126 10205	6PF NP0 50V
2102	4822 126 10205	6PF NP0 50V
2103	4822 122 33837	1NF 10% X7R 50V
2104	4822 122 33837	1NF 10% X7R 50V
2105	4822 122 33177	10NF 20% X7R 50V
2106	5322 122 31647	1NF 10% X7R 63V
2107	4822 122 33176	2,7NF 20% X7R 50V
2108	5322 122 31647	1NF 10% X7R 63V
2109	4822 122 31971	10PF 10% 50V
2110	4822 122 33837	1NF 10% X7R 50V
2111	4822 122 33834	12PF NPO 50V

2112	5322 122 32965	18PF 5% NPO 50V
2113	4822 122 31971	10PF 10% 50V
2115	4822 122 31971	10PF 10% 50V
2116	4822 122 33634	1NF 20% 50V
2117	4822 122 33837	1NF 10% X7R 50V
2118	4822 122 32542	47NF 10% X7R 63V
2120	4822 122 33837	1NF 10% X7R 50V
2121	4822 124 22403	10 µF 20% 16V
2124	4822 122 32542	47NF 10% X7R 63V
2125	4822 122 33177	10NF 20% X7R 50V
2150	4822 122 33555	22NF 10%
2151	4822 122 33555	22NF 10%
2152	4822 124 23624	47 µF 20% 16V
2153	4822 122 33555	22NF 10%
2154	4822 122 33496	100NF 10% X7R 63V
2155	4822 122 33496	100NF 10% X7R 63V
2156	4822 122 33283	150PF 5% NP0 50V
2157	4822 122 33219	1,8NF 10% X7R 50V
2158	4822 122 33837	1NF 10% X7R 50V
2159	4822 122 33496	100NF 10% X7R 63V
2161	4822 122 33515	82PF 5% NP0 63V
2162	4822 122 33837	1NF 10% X7R 50V
2163	4822 122 33514	68PF 5% NP0 50V
2164	4822 122 33496	100NF 10% X7R 63V
2165	4822 122 33496	100NF 10% X7R 63V
2180	4822 124 23432	100 µF 20% 10V
2182	4822 122 33555	22NF 10%
2183	4822 122 32542	47NF 10% X7R 63V
2184	4822 124 41971	2,2 µF 20% 50V
2186	4822 122 33214	27pF 5% NP0
2187	4822 122 33214	27pF 5% NP0
2188	4822 124 23624	47 µF 20% 16V
2189	4822 124 23624	47 µF 20% 16V
2191	4822 122 33496	100NF 10% X7R 63V
2200	4822 121 42408	220NF 5% 63V
2201	4822 122 33555	22NF 10%
2202	4822 122 33496	100NF 10% X7R 63V
2203	4822 122 33584	220PF 5%
2204	4822 122 33219	1,8NF 10% X7R 50V
2205	5322 122 32268	470PF 10% 50V
2206	4822 122 32542	47NF 10% X7R 63V
2207	5322 122 31866	6,8NF 10% X7R 63V
2208	5322 122 31866	6,8NF 10% X7R 63V
2209	4822 122 33496	100NF 10% X7R 63V
2210	4822 124 23432	100 µF 20% 10V
2211	4822 124 41796	22 µF 20% 16V
2212	4822 122 33283	150PF 5% NP0 50V
2214	4822 121 42408	220NF 5% 63V
2215	4822 121 42408	220NF 5% 63V
2216	4822 122 33216	270PF 5% NP0 50V
2250	4822 122 33173	560PF 10% X7R 50V
2251	4822 122 33173	560PF 10% X7R 50V
2252	4822 122 33173	560PF 10% X7R 50V
2253	4822 122 33173	560PF 10% X7R 50V
2254	4822 122 33176	2,7NF 20% X7R 50V
2255	4822 122 33176	2,7NF 20% X7R 50V
2259	4822 124 22403	10 µF 20% 16V
2265	4822 124 23432	100 µF 20% 10V
2266	4822 122 33555	22NF 10%

2268	4822 124 23432	100 µF 20% 10V
2269	4822 124 23432	100 µF 20% 10V
2374	4822 122 33177	10NF 20% X7R 50V
2440	4822 122 33496	100NF 10% X7R 63V
2441	4822 122 33496	100NF 10% X7R 63V
2442	4822 122 33496	100NF 10% X7R 63V
2443	4822 122 33496	100NF 10% X7R 63V
2444	4822 122 33555	22NF 10%
2445	4822 122 33555	22NF 10%
2448	4822 124 40244	2,2 µF 20% 63V DC501/ 505
2448	4822 124 41972	4,7 µF 20% 63V
2449	4822 124 40244	2,2 µF 20% 63V DC501/ 505
2449	4822 124 41972	4,7 µF 20% 63V
2480	4822 124 40244	2,2 µF 20% 63V
2482	4822 124 40244	2,2 µF 20% 63V
2500	4822 122 33496	100NF 10% X7R 63V
2501	4822 124 22711	100 µF 20% 10V
2502	4822 122 33496	100NF 10% X7R 63V
2503	4822 122 33496	100NF 10% X7R 63V
2504	4822 122 33496	100NF 10% X7R 63V
2505	4822 122 33496	100NF 10% X7R 63V
2506	4822 122 32916	220NF 10% X7R 63V
2507	4822 122 32916	220NF 10% X7R 63V
2508	4822 122 32916	220NF 10% X7R 63V
2509	4822 122 32916	220NF 10% X7R 63V
2510	4822 121 42408	220NF 5% 63V
2511	4822 121 42408	220NF 5% 63V
2512	4822 124 22403	10 µF 20% 16V
2513	4822 124 22403	10 µF 20% 16V
2515	4822 122 32916	220NF 10% X7R 63V
2550	5322 122 32268	470PF 10% 50V
2551	5322 122 32268	470PF 10% 50V
2552	5322 122 32268	470PF 10% 50V
2553	5322 122 32268	470PF 10% 50V
2554	4822 122 33496	100NF 10% X7R 63V
2555	4822 124 23624	47 µF 20% 16V
2556	4822 122 33339	4,7NF 10% X7R 50V
2558	4822 122 33339	4,7NF 10% X7R 50V
2560	4822 122 33339	4,7NF 10% X7R 50V
2562	4822 122 33339	4,7NF 10% X7R 50V
2563	4822 124 40201	100 µF 20% 16V
2564	4822 124 40201	100 µF 20% 16V
2570	4822 124 40723	2200 µF 20% 16V
2574	4822 122 33555	22NF 10%
2577	4822 122 33496	100NF 10% X7R 63V
2580	4822 124 22403	10 µF 20% 16V
2580	4822 124 23432	100 µF 20% 10V DC501/ 505
2600	4822 122 33496	100NF 10% X7R 63V
2601	4822 124 22403	10 µF 20% 16V
2602	4822 124 22403	10 µF 20% 16V
2603	4822 124 23624	47 µF 20% 16V
2604	4822 124 40196	220 µF 20% 16V
2605	4822 122 33837	1NF 10% X7R 50V
2606	4822 122 33837	1NF 10% X7R 50V
2616	4822 122 33496	100NF 10% X7R 63V
2631	4822 124 22403	10 µF 20% 16V
2632	4822 124 40244	2,2 µF 20% 63V
2640	4822 124 23624	47 µF 20% 16V
2641	4822 124 22403	10 µF 20% 16V

2642	4822 124 40196	220 µF 20% 16V
2710	4822 122 33555	22NF 10%
2711	4822 124 41969	1 µF 20% 50V
2750	4822 122 33496	100NF 10% X7R 63V

3050	4822 051 20561	560Ω 5% 0,1W
3051	4822 051 20471	470Ω 5% 0,1W
3052	4822 051 20184	180k 5% 0,1W
3053	4822 050 24702	4k70 1% 0,6W
3054	4822 051 20102	1k 5% 0,1W
3055	4822 051 20102	1k 5% 0,1W
3056	4822 051 20223	22k 5% 0,1W
3057	4822 051 20224	220k 5% 0,1W
3058	4822 051 20474	470k 5% 0,1W
3064	4822 051 20471	470Ω 5% 0,1W
3065	4822 051 20478	4Ω70 5% 0,1W
3066	4822 051 20563	56k 5% 0,1W
3067	4822 051 20272	2k70 5% 0,1W
3068	4822 100 11212	2k2 30%
3100	4822 051 20184	180k 5% 0,1W
3101	4822 051 20184	180k 5% 0,1W
3102	4822 051 20271	270Ω 5% 0,1W
3103	4822 051 20122	1k20 5% 0,1W
3104	4822 051 20104	100k 5% 0,1W
3105	4822 051 20229	22Ω 5% 0,1W
3106	4822 051 20102	1k 5% 0,1W
3107	4822 051 20104	100k 5% 0,1W
3108	4822 051 20224	220k 5% 0,1W
3109	4822 051 20229	22Ω 5% 0,1W
3110	4822 051 20229	22Ω 5% 0,1W
3111	4822 051 20569	56Ω 5% 0,1W
3112	4822 051 20104	100k 5% 0,1W
3113	4822 051 20104	100k 5% 0,1W
3114	4822 100 20589	POTENT
3115	4822 051 20569	56Ω 5% 0,1W
3116	4822 051 20102	1k 5% 0,1W
3117	4822 051 20271	270Ω 5% 0,1W
3118	4822 051 20229	22Ω 5% 0,1W
3120	4822 051 20472	4k70 5% 0,1W
3121	4822 051 20273	27k 5% 0,1W
3125	4822 051 20472	4k70 5% 0,1W
3126	4822 051 20223	22k 5% 0,1W
3127	4822 051 20473	47k 5% 0,1W
3128	4822 051 20273	27k 5% 0,1W
3129	4822 051 20104	100k 5% 0,1W
3131	4822 051 20473	47k 5% 0,1W
3132	4822 051 20273	27k 5% 0,1W
3133	4822 051 20152	1k50 5% 0,1W
3134	4822 051 20473	47k 5% 0,1W
3135	4822 051 20473	47k 5% 0,1W
3137	4822 051 20569	56Ω 5% 0,1W
3150	4822 051 20271	270Ω 5% 0,1W
3151	4822 051 20222	2k20 5% 0,1W
3152	4822 051 20562	5k60 5% 0,1W
3153	4822 051 20823	82k 5% 0,1W
3154	4822 051 20103	10k 5% 0,1W
3155	4822 051 20104	100k 5% 0,1W
3156	4822 051 20271	270Ω 5% 0,1W
3157	4822 051 20563	56k 5% 0,1W

3160	4822 100 11163	100k 30% LIN	3448	4822 116 52257	22k 5% 0,5W
3180	4822 051 20182	1k80 5% 0,1W	3450	4822 051 20273	27k 5% 0,1W
3181	4822 051 20121	120Ω 5% 0,1W	3450	4822 051 20103	10k 5% 0,1W DC501/ 505
3182	4822 051 20222	2k20 5% 0,1W	3451	4822 051 20153	15k 5% 0,1W
3183	4822 051 20103	10k 5% 0,1W	3451	4822 051 20333	33k 5% 0,1W DC501/ 505
3184	4822 051 20102	1k 5% 0,1W	3452	4822 051 20273	27k 5% 0,1W
3186	4822 051 20184	180k 5% 0,1W	3452	4822 051 20103	10k 5% 0,1W DC501/ 505
3187	4822 051 20103	10k 5% 0,1W	3453	4822 051 20153	15k 5% 0,1W
3188	4822 051 20332	3k30 5% 0,1W	3453	4822 051 20333	33k 5% 0,1W DC501/ 505
3190	4822 051 20561	560Ω 5% 0,1W	3454	4822 051 20103	10k 5% 0,1W
3191	4822 051 20472	4k70 5% 0,1W	3480	4822 051 20562	5k60 5% 0,1W
3200	4822 051 20273	27k 5% 0,1W	3481	4822 051 20222	2k20 5% 0,1W
3201	4822 051 20104	100k 5% 0,1W	3484	4822 051 20562	5k60 5% 0,1W
3202	4822 051 20272	2k70 5% 0,1W	3485	4822 051 20222	2k20 5% 0,1W
3203	4822 050 14704	470k 1% 0,4W	3486	4822 051 20333	33k 5% 0,1W
3204	4822 051 20473	47k 5% 0,1W	3487	4822 051 20333	33k 5% 0,1W
3205	4822 051 20333	33k 5% 0,1W	3490	4822 051 20103	10k 5% 0,1W
3206	4822 051 20333	33k 5% 0,1W	3492	4822 051 20103	10k 5% 0,1W
3207	4822 051 20474	470k 5% 0,1W	3500	4822 116 52283	4k7 5% 0,5W
3208	4822 051 20473	47k 5% 0,1W	3501	4822 116 52283	4k7 5% 0,5W
3209	4822 051 20104	100k 5% 0,1W	3502	4822 051 20472	4k70 5% 0,1W
3210	4822 051 20182	1k80 5% 0,1W	3503	4822 116 52283	4k7 5% 0,5W
3211	4822 051 20152	1k50 5% 0,1W	3504	4822 051 20472	4k70 5% 0,1W
3212	4822 051 20153	15k 5% 0,1W	3505	4822 051 20472	4k70 5% 0,1W
3213	4822 051 20104	100k 5% 0,1W	3506	4822 051 20472	4k70 5% 0,1W
3214	4822 051 20478	4Ω70 5% 0,1W	3507	4822 051 20472	4k70 5% 0,1W
3215	4822 051 20103	10k 5% 0,1W	3508	4822 051 20478	4Ω70 5% 0,1W
3216	4822 051 20222	2k20 5% 0,1W	3509	4822 051 20478	4Ω70 5% 0,1W
3217	4822 051 20103	10k 5% 0,1W	3515	4822 116 52235	1M 5% 0,5W
3218	4822 051 20104	100k 5% 0,1W	3556	4822 051 20478	4Ω70 5% 0,1W
3219	4822 051 20332	3k30 5% 0,1W	3558	4822 051 20478	4Ω70 5% 0,1W
3220	4822 051 20473	47k 5% 0,1W	3560	4822 051 20478	4Ω70 5% 0,1W
3221	4822 100 11163	100k 30%LIN 0,1W	3562	4822 051 20478	4Ω70 5% 0,1W
3222	4822 051 20224	220k 5% 0,1W	3563	4822 051 20103	10k 5% 0,1W
3225	4822 051 20105	1M 5% 0,1W	3564	4822 051 20333	33k 5% 0,1W
3226	4822 051 20103	10k 5% 0,1W	3565	4822 051 20102	1k 5% 0,1W
3252	4822 051 20121	120Ω 5% 0,1W	3566	4822 051 20223	22k 5% 0,1W
3253	4822 051 20121	120Ω 5% 0,1W	3576	4822 050 21009	10Ω 1% 0,6W
3254	4822 051 20105	1M 5% 0,1W	3601	4822 051 20102	1k 5% 0,1W
3255	4822 051 20105	1M 5% 0,1W	3605	4822 051 20102	1k 5% 0,1W
3258	4822 051 20563	56k 5% 0,1W	3610	4822 051 20103	10k 5% 0,1W
3259	4822 051 20563	56k 5% 0,1W	3611	4822 051 20102	1k 5% 0,1W
3262	4822 051 20473	47k 5% 0,1W	3612	4822 051 20102	1k 5% 0,1W
3374	4822 051 20474	470k 5% 0,1W	3613	4822 051 20104	100k 5% 0,1W
3375	4822 051 20474	470k 5% 0,1W	3615	4822 051 20103	10k 5% 0,1W
3376	4822 051 20102	1k 5% 0,1W	3620	4822 053 11331	330Ω 5% 2W
3377	4822 051 20562	5k60 5% 0,1W	3625	4822 116 40216	4Ω7
3378	4822 051 20104	100k 5% 0,1W	3631	4822 051 20472	4k70 5% 0,1W
3379	4822 051 20104	100k 5% 0,1W	3632	4822 051 20473	47k 5% 0,1W
3440	4822 051 20153	15k 5% 0,1W	3633	4822 051 20472	4k70 5% 0,1W
3441	4822 051 20153	15k 5% 0,1W	3634	4822 051 20104	100k 5% 0,1W
3442	4822 051 20272	2k70 5% 0,1W	3635	4822 051 20104	100k 5% 0,1W
3443	4822 051 20474	470k 5% 0,1W	3636	4822 051 20223	22k 5% 0,1W
3444	4822 051 20272	2k70 5% 0,1W	3637	4822 051 20104	100k 5% 0,1W
3444	4822 051 20182	1k80 5% 0,1W DC501/ 505	3638	4822 051 20104	100k 5% 0,1W
3445	4822 051 20272	2k70 5% 0,1W	3639	4822 051 20473	47k 5% 0,1W
3445	4822 051 20332	3k30 5% 0,1W DC501/ 505	3640	4822 051 20473	47k 5% 0,1W
3446	4822 051 20103	10k 5% 0,1W	3642	4822 051 20563	56k 5% 0,1W
3447	4822 051 20223	22k 5% 0,1W	3643	4822 051 20103	10k 5% 0,1W

3644	4822 051 20473	47k 5% 0,1W
3645	4822 051 20473	47k 5% 0,1W
3646	4822 051 20472	4k70 5% 0,1W
3647	4822 051 20478	4Ω70 5% 0,1W
3650	4822 051 20478	4Ω70 5% 0,1W
3681	4822 051 20223	22k 5% 0,1W
3682	4822 051 20223	22k 5% 0,1W
3710	4822 051 20105	1M 5% 0,1W
3711	4822 051 20105	1M 5% 0,1W
3712	4822 051 20105	1M 5% 0,1W
3713	4822 051 20473	47k 5% 0,1W
3714	4822 051 20473	47k 5% 0,1W
3715	4822 051 20104	100k 5% 0,1W
3716	4822 051 20104	100k 5% 0,1W
3751	4822 051 20223	22k 5% 0,1W
3752	4822 051 20223	22k 5% 0,1W
3860	4822 116 52233	10k 5% 0,5W
3861	4822 116 52233	10k 5% 0,5W
3862	4822 116 52233	10k 5% 0,5W
3863	4822 116 52233	10k 5% 0,5W
3864	4822 116 52233	10k 5% 0,5W
3865	4822 051 20103	10k 5% 0,1W
3866	4822 051 20103	10k 5% 0,1W
3880	4822 050 21009	10Ω 1% 0,6W
3880	4822 116 52215	220E 5% 0,5W
3881	4822 050 21009	10Ω 1% 0,6W
3881	4822 116 52215	220E 5% 0,5W
3882	4822 116 52215	220E 5% 0,5W
3885	4822 051 20271	270Ω 5% 0,1W
4250	4822 051 20478	4Ω70 5% 0,1W
4251	4822 051 20478	4Ω70 5% 0,1W

5050	4822 152 20677	10µH 10%
5051	4822 152 20677	10µH 10%
5052	4822 157 60122	4.7µH 10%
5053	4822 152 20677	10µH 10%
5054	4822 157 50975	1 MH
5055	4822 152 20682	6.15 µH 6%
5056	4822 152 20678	33µH10%
5057	4822 152 20683	28 µH 6%
5058	4822 157 52983	2N2
5059	4822 157 52983	2N2
5060	4822 157 60122	4.7µH 10%
5070	4822 242 72076	10,7MC
5071	4822 242 72076	10,7MC
5072	4822 242 71883	SFE10,7MS318-D
5100	4822 157 63496	
5101	4822 152 20677	10µH 10%
5102	4822 156 21656	100MHZ 3% 7KS B
5103	4822 156 21655	100MHZ MC-122 B
5104	4822 153 50257	COIL 2,5µH
5114	4822 242 73779	SFE 10,7MS328-A
5115	4822 242 73779	SFE 10,7MS328-A
5117	4822 242 80258	SFE10.7MS2-A-TF21
5150	4822 157 63753	10.7MHZ
5180	4822 242 72292	NR-18 4500MC
5181	4822 157 52983	2N2
5200	4822 242 81117	CSB456F11
5570	4822 152 20681	CHOKE COIL

6000	4822 252 60125	DSP201
6051	4822 130 82596	BB419
6052	5322 130 34337	BAV99
6100	4822 130 81643	BB804
6101	4822 130 81643	BB804
6102	4822 130 81643	BB804
6103	4822 130 42033	BA479G
6104	5322 130 34337	BAV99
6105	5322 130 34337	BAV99
6200	4822 130 30621	1N4148
6201	4822 130 30621	1N4148
6203	5322 130 31928	BAS16
6570	5322 130 30684	1N4002
6571	5322 130 30684	1N4002
6572	5322 130 30684	1N4002
6606	4822 130 30862	BZX79-B9V1
6607	5322 130 30684	1N4002
6610	4822 130 34174	BZX79-C4V7
6640	5322 130 34337	BAV99
6710	4822 130 30621	1N4148
6711	4822 130 30621	1N4148
6872	5322 130 31928	BAS16
6880	4822 130 82989	LED TLHO2400
6881	5322 130 30684	1N4002
6881	4822 130 82989	LED TLHO2400
6882	5322 130 30684	1N4002
6882	4822 130 82989	LED TLHO2400
6883	4822 130 82989	LED TLHO2400
6884	4822 130 82989	LED TLHO2400
6885	4822 130 82989	LED TLHO2400
6886	4822 130 82989	LED TLHO2400
6887	4822 130 82989	LED TLHO2400
6888	4822 130 82989	LED TLHO2400
6889	4822 130 82989	LED TLHO2400
6890	4822 130 82989	LED TLHO2400
6891	4822 130 82989	LED TLHO2400

7050	4822 209 72247	TEA6200/V2
7055	4822 130 41482	BF410C
7056	4822 130 44195	BF494
7100	4822 209 73069	LA1177
7102	4822 130 61183	BF992/01
7103	4822 130 60511	BC847B
7104	5322 130 41983	BC858B
7120	4822 130 60511	BC847B
7121	4822 130 60511	BC847B
7150	4822 209 63697	TDA1596/V3
7180	4822 130 44246	BC549C
7181	4822 130 44246	BC549C
7182	4822 130 60511	BC847B
7183	5322 130 41983	BC858B
7185	4822 209 31199	MICRO OTP 521/525
7185	4822 209 31198	MICRO OTP 501/505/511/515
7186	5322 209 11306	HEF4094BT
7200	4822 130 60511	BC847B
7201	4822 130 60511	BC847B
7202	5322 130 41983	BC858B
7203	4822 130 60511	BC847B

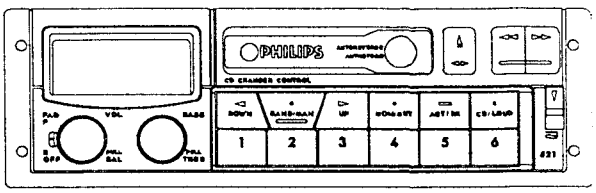
7210	4822 209 30859	TDA1591/V3
7250	4822 209 63939	TA7705F
7370	5322 209 11102	HEF4052BT
7480	4822 130 60511	BC847B
7481	4822 130 60511	BC847B
7482	4822 130 44246	BC549C
7483	4822 130 60511	BC847B
7500	4822 209 31193	TDA1526
7501	4822 130 60511	BC847B
7503	4822 130 60511	BC847B
7510	5322 209 11102	HEF4052BT
7550	4822 209 31132	TDA7374V
7600	4822 130 62651	ON4414
7602	4822 209 63938	L4918
7603	5322 209 60749	LM2931Z-5.0
7631	4822 130 60511	BC847B
7632	4822 130 60511	BC847B
7633	4822 130 60511	BC847B
7634	4822 130 60511	BC847B
7640	5322 130 41983	BC858B
7641	4822 130 60511	BC847B
7642	4822 130 60511	BC847B
7710	4822 130 60511	BC847B
7711	4822 130 60511	BC847B
7712	5322 130 41983	BC858B
7750	4822 209 30976	ST24C02AB6

Technician 's Remarks

Cassette car radio 22DC501/511/521/00

22DC505/515/525/02
Supplement

Service
Service
Service



For repair information of the Cassette Deck see Service Manuel N° 4822.725.24113 of Auto Cassette Deck P6-26/1

Service Manual

12 V

For sets produced since week 21 of 1992 , the FD code 00 has been changed in 01 because some modifications have been applied in production
-in the APS module (item 2575 is added)
-in the CTR module (see the new schematic diagram , page3)

For sets produced since week 26 of 1993 ,the FD code 01 has been changed in 02 because some modifications have been applied in production, particulary new Main printed board
-see the new SPM schematic diagram (page 5)
-see the new RFD schematic diagram (page 6)

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Partslist	2
CTR part schematic diagram	3 - 3a
Main PCB Layout	4 - 4a
SPM part schematic diagram	5 - 5a
RFD part schematic diagram	6 - 6a
Technician's Remarks	7 - 7a

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PCS 70 828

PHILIPS

PARTS-LIST

APS Module
Added: 2575 = 4822 051 20103

CTR part
Changed: 2604 = 4822 124 23624

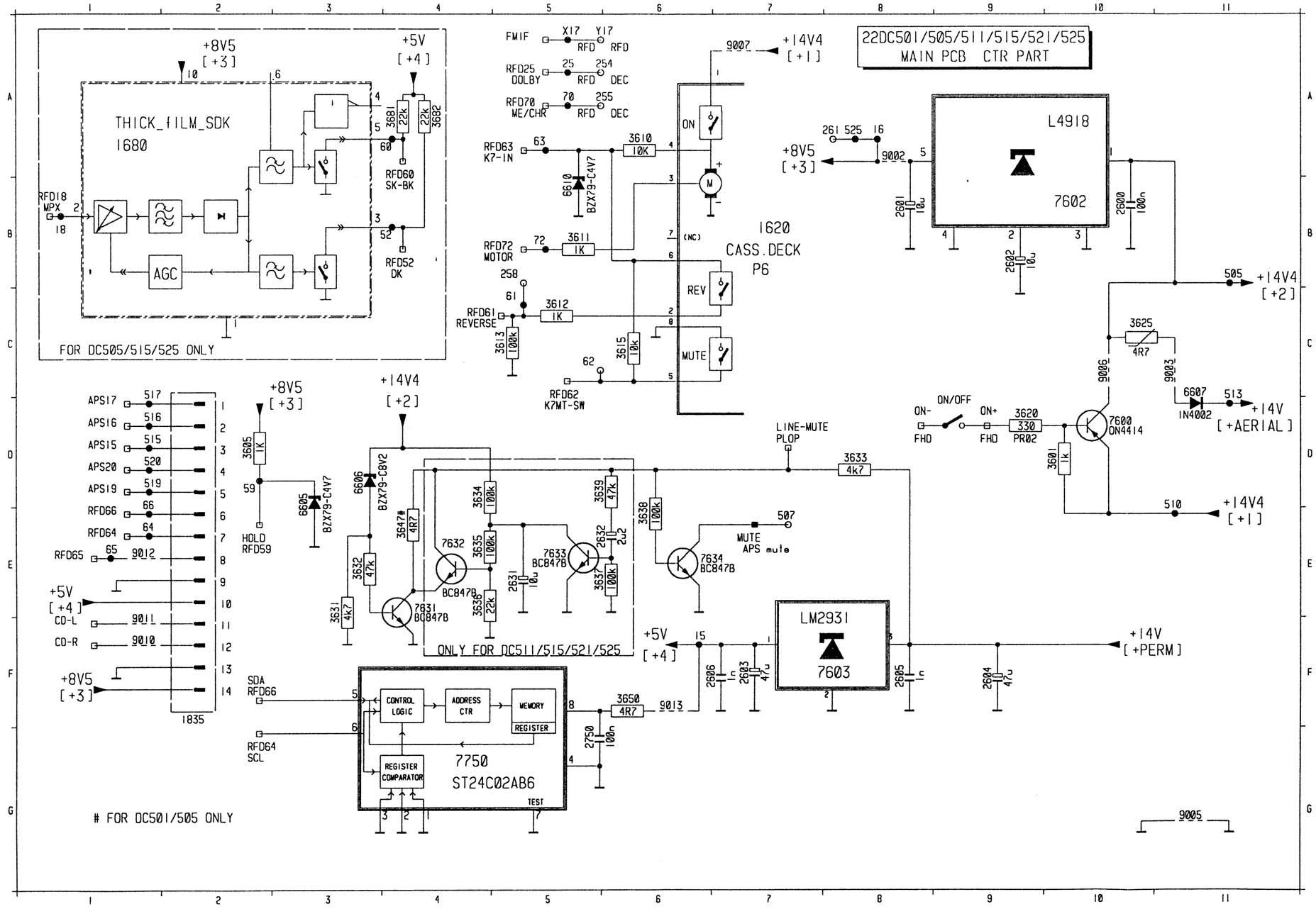
Deleted: 2640 2641 2642 3640 3642 3643 3644 3645 3646 6640
7640 7641 7642

SPM part
Changed: 2506 = 4822 122 33496
2507 = 4822 122 33496
2515 = 4822 121 42408

Added: 2516 = 4822 122 33496
2517 = 4822 122 33496

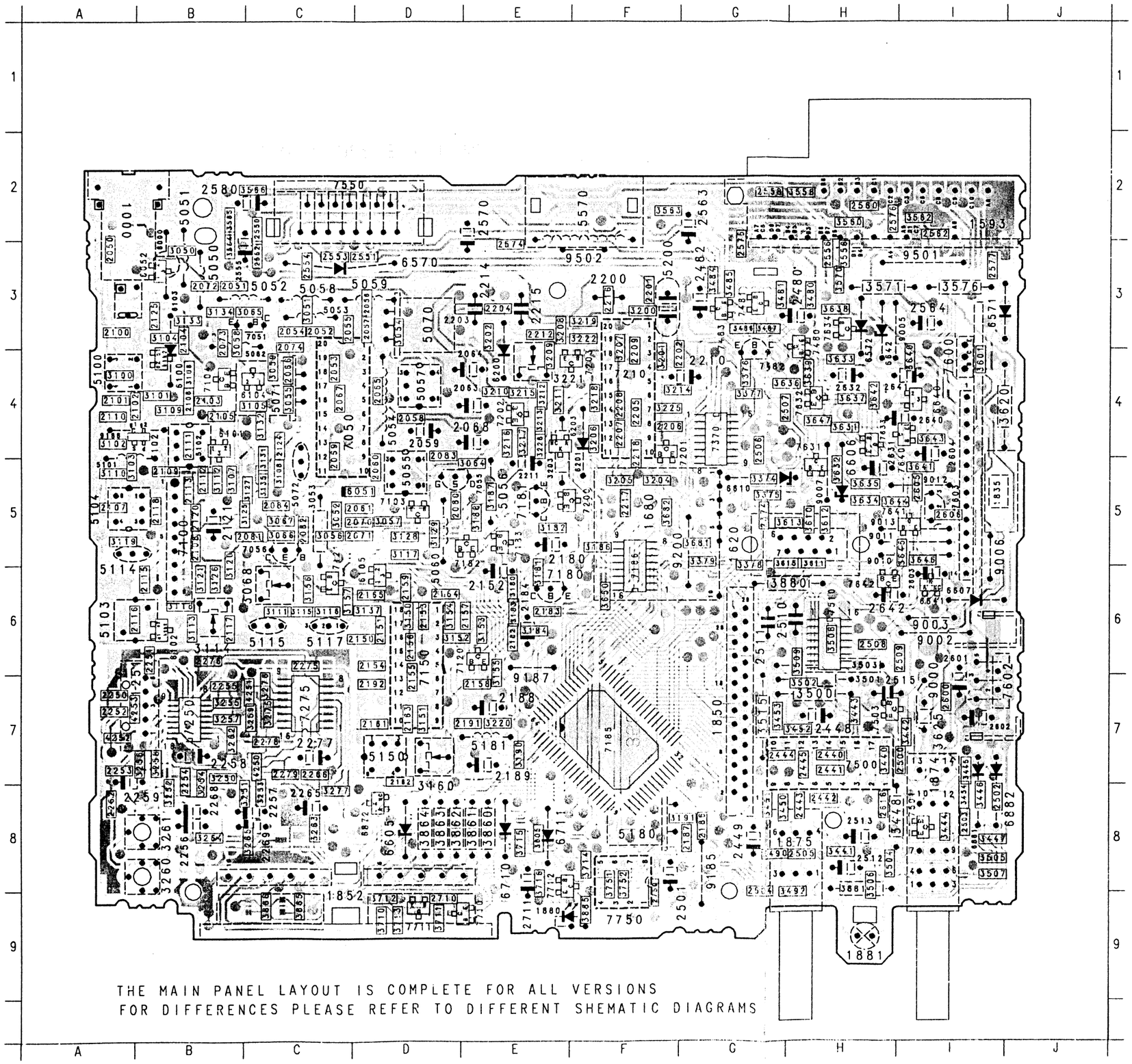
RFD part
Deleted: 2054

Changed: 2055 = 4822 861 33216
2056 = 4822 861 33216
5053 = wire cu
5058 = 4822 152 20678
5059 = 4822 152 20679



1620 B 7
1680 A 1
1835 F 2
2600 B10
2601 B 8
2602 B 9
2603 F 7
2604 F 9
2605 F 8
2606 F 7
2631 E 5
2632 E 6
2750 G 5
3601 D10
3605 D 2
3610 A 6
3611 B 5
3612 C 5
3613 C 5
3615 C 6
3620 D 9
3625 C10
3631 E 3
3632 E 3
3633 D 8
3634 D 4
3635 E 4
3636 E 4
3637 E 5
3638 E 6
3639 D 5
3647# E 4
3650 F 6
3681 A 4
3682 A 4
6605 D 3
6606 D 3
6607 D11
6610 B 5
7600 D10
7602 B10
7603 F 8
7631 E 4
7632 E 4
7633 E 5
7634 E 6
7750 G 4
9002 A 8
9003 C11
9005 G11
9006 C10
9007 A 7
9010 F 1
9011 F 1
9012 E 1
9013 F 6

MAIN PANEL



1000	2A	2207	4F	3054	3D	3257	7B	3714	8F	7210	4F
1251	7B	2208	4F	3055	4C	3258	7B	3715	8E	7250	7B
1593	2I	2209	4F	3056	5C	3259	7C	3716	8E	7275	7C
1620	5G	2210	4G	3057	5D	3260	8B	3751	8F	7370	4G
1680	5F	2211	5E	3058	3B	3261	8B	3752	8F	7480	3H
1835	5I	2212	3E	3059	4C	3262	7B	3860	8E	7481	3G
1850	7G	2214	3E	3064	5E	3263	8C	3861	8E	7482	4G
1852	9C	2215	3E	3065	3C	3264	8B	3862	8E	7483	3G
1874	7I	2216	3F	3066	5C	3265	8C	3863	8D	7500	7H
1875	8H	2217	5F	3067	5C	3275	7C	3864	8D	7501	8I
1880	9E	2218	4F	3068	6C	3276	7C	3865	9C	7503	7H
1881	9H	2250	7A	3100	4A	3277	8C	3866	9C	7510	6H
2050	3A	2251	6B	3101	4B	3374	5G	3880	6H	7550	2C
2051	3B	2252	7A	3102	4A	3375	5G	3881	8H	7600	4I
2052	3C	2253	7A	3103	5B	3376	4G	3885	9F	7602	7J
2053	4C	2254	7B	3104	3B	3377	4G	4250	7C	7603	5I
2054	3C	2255	7B	3105	4C	3378	6G	4251	7C	7631	4H
2055	3D	2256	8B	3106	4B	3379	5G	4252	7A	7632	4H
2056	3D	2257	8C	3107	5B	3440	7H	4253	7B	7633	4H
2057	3D	2258	7B	3108	5C	3441	8H	5050	3B	7634	3H
2058	4D	2259	8B	3109	4B	3442	7I	5051	2B	7640	5I
2059	4D	2262	8A	3110	5A	3443	7H	5052	3C	7641	5I
2060	5D	2265	8C	3111	6C	3444	8I	5053	3C	7642	6H
2061	5D	2266	7C	3112	5B	3445	7I	5054	4D	7710	9E
2063	4E	2268	8B	3113	6B	3446	8I	5055	5D	7711	9D
2064	4E	2269	8C	3114	6B	3447	8I	5056	5E	7712	8E
2065	4D	2275	6C	3115	6C	3448	8I	5057	4D	7750	9F
2066	4C	2276	6B	3116	6C	3450	8H	5058	3C	9000	7I
2067	4C	2277	7C	3117	5D	3451	8G	5059	3D	9002	6I
2068	4E	2278	7C	3118	6B	3452	7H	5060	6D	9003	6I
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2072	3B	2441	7H	3125	5C	3481	3G	5072	5C	9010	5H
2073	3B	2442	8H	3126	6B	3484	3G	5100	4A	9011	5H
2074	3C	2443	8H	3127	5C	3485	3G	5101	5A	9012	5I
2080	5D	2444	7H	3128	5D	3486	3G	5102	4B	9013	5H
2081	5C	2445	7H	3129	5D	3487	3G	5103	6A	9185	8G
2082	5C	2448	7H	3131	5C	3490	8G	5104	5A	9186	4A
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2100	3A	2482	3G	3134	3B	3501	7H	5117	6C	9501	3I
2101	4A	2500	7I	3135	5C	3502	7H	5150	7D	9502	3F
2102	4B	2501	9G	3137	6D	3503	6H	5180	8F		
2103	4B	2502	8I	3150	6D	3504	8H	5181	7E		
2104	3B	2503	8I	3151	7D	3505	8I	5200	3F		
2105	4B	2504	8G	3152	6E	3506	8H	5570	2F		
2106	4B	2505	8H	3153	6E	3507	8I	6000	2B		
2107	5A	2506	4G	3154	6D	3508	6H	6051	5D		
2108	5B	2507	4H	3155	6E	3509	6H	6052	3B		
2109	5B	2508	6H	3156	6C	3515	7G	6100	4B		
2110	4A	2509	6I	3157	6D	3556	3H	6101	4B		
2111	4B	2510	6H	3160	8D	3558	2H	6102	6B		
2112	5B	2511	6G	3180	6E	3560	2H	6103	3B		
2113	5B	2512	8H	3181	6E	3562	2I	6104	4C		
2115	6B	2513	8H	3182	5E	3563	2F	6105	6D		
2116	6B	2515	7I	3183	6E	3564	3B	6200	4E		
2117	6B	2550	2C	3184	6E	3565	2B	6201	5F		
2118	5B	2551	3D	3186	5F	3566	2C	6203	4F		
2120	5B	2552	3C	3187	5E	3570	3H	6570	3D		
2121	5B	2553	3C	3188	5E	3571	3H	6571	3I		
2124	4C	2554	3C	3190	7E	3576	3I	6572	4H		
2125	3B	2555	3B	3191	8G	3601	4I	6605	8D		
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2152	6E	2560	2H	3202	3E	3611	5H	6610	5G		
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2155	7D	2564	3I	3205	5F	3615	5H	6642	4H		
2156	6D	2570	2E	3206	4F	3620	4J	6710	8E		
2157	6E	2574	3E	3207	4F	3625	7I	6711	8E		
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2164	6D	2601	6I	3213	4E	3636	4H	7055	5E		
2165	6D	2602	7J	3214	4G	3637	4H	7056	5C		
2180	5F	2603	6I	3215	4E	3638	3H	7100	5B		
2182	6E	2604	4I	3216	4E	3639	4H	7102	4B		
2183	6E	2605	5I	3217	4E	3640	4I	7103	5D		
2184	6E	2606	5I	3218	4F	3641	5I	7104	4B		
2186	8G	2616	8H	3219	3F	3642	4H	7120	6E		
2187	8G	2631	4H	3220	7E	3643	4I	7121	5C		
2188	7E	2632	4H	3221	4F	3644	5I	7150	6D		
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2191	7E	2641	4I	3225	4F	3646	5I	7181	5E		
2192	7D	2642	6H	3226	4E	3647	4H	7182	5E		
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2205	4F	3052	5C	3255	7B	3712	9D	7202	4E		
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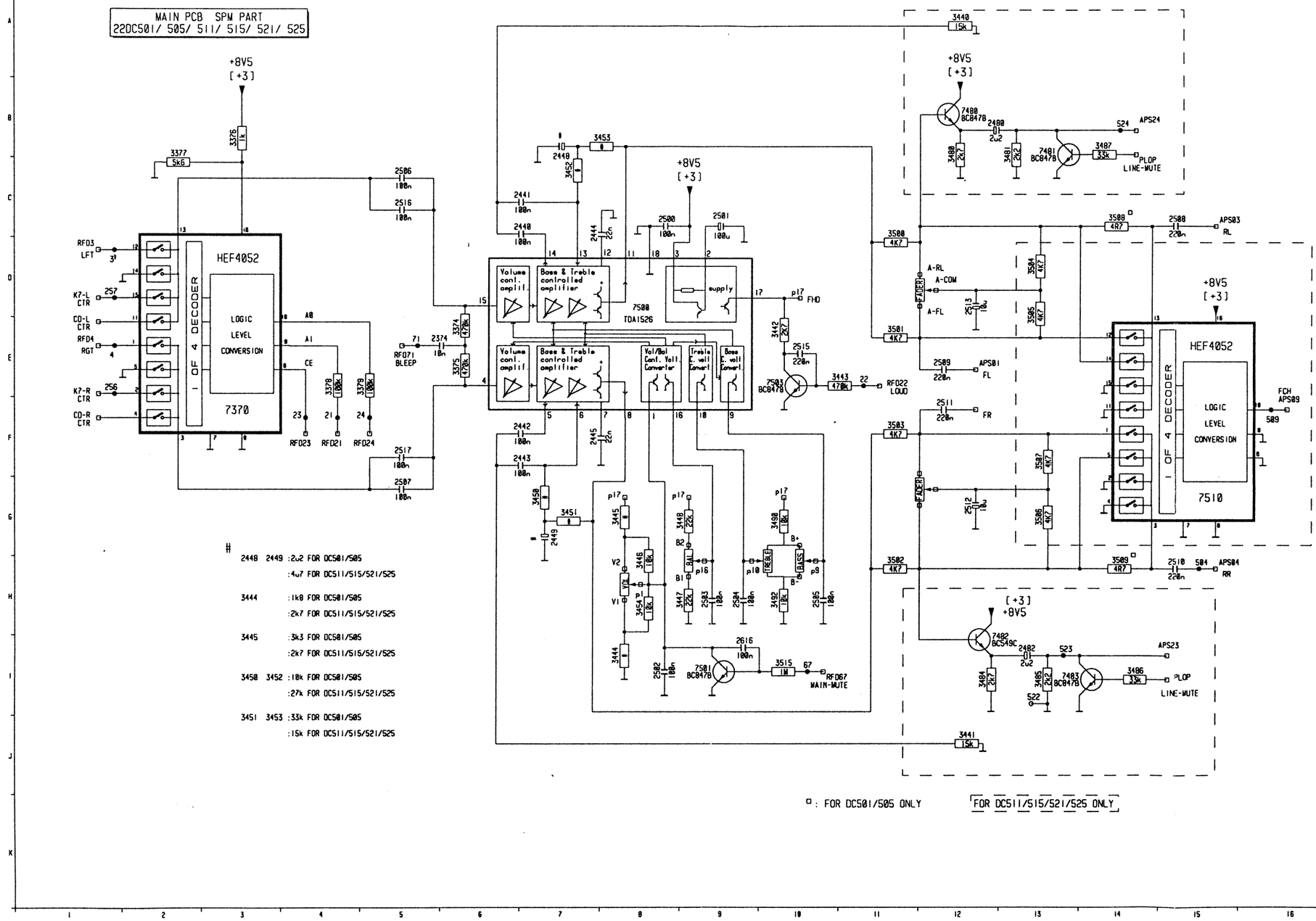
22DC505/ 515/ 525



2374 E 5
2440 C 6
2441 C 6
2442 F 6
2443 F 6
2444 C 7
2445 F 7
2448 B 7
2449 G 7
2480 B12
2482 I13
2500 C 8
2501 C 9
2502 I 8
2503 H 9
2504 H 9
2505 H10
2506 C 5
2507 G 5
2508 C15
2509 E12
2510 H15
2511 F12
2512 G12
2513 D12
2515 E10
2516 C 5
2517 F 5
2616 I 9
3374 E 6
3375 E 6
3376 B 3
3377 B 2
3378 E 4
3379 E 4
3440 A12
3441 J12
3442 E10
3443 E10
3444 I 8
3445 G 8
3446 H 8
3447 H 8
3448 G 8
3450 G 7
3451 G 7
3452 C 7
3453 B 7
3454 H 8
3480 B12
3481 B13
3484 I12
3485 I13
3486 I14
3487 B14
3490 G10
3492 H10
3500 C11
3501 E11
3502 H11
3503 F11
3504 D13
3505 D13
3506 G13
3507 F13
3508 C14
3509 H14
3515 I10
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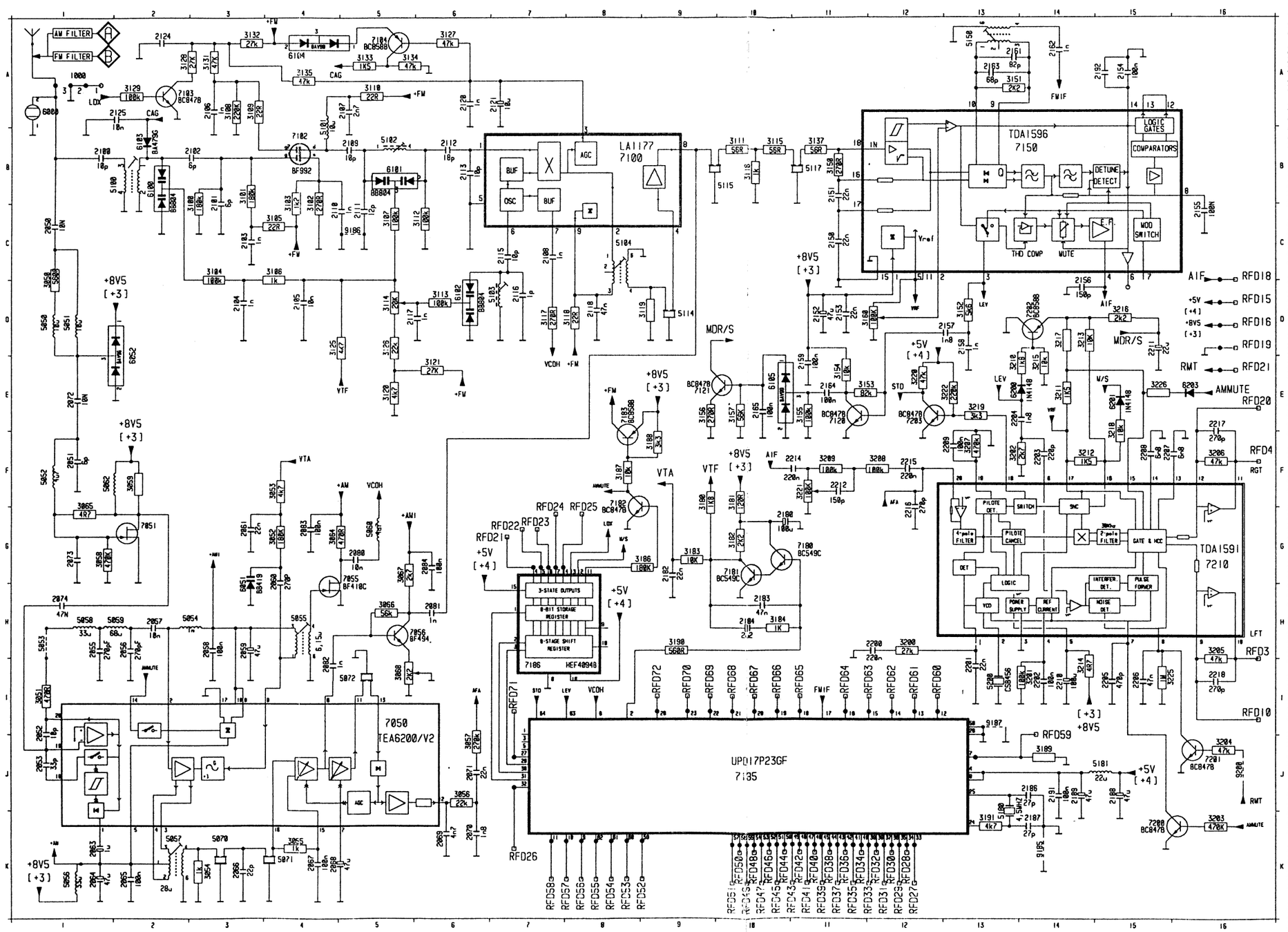
7480 B12
7481 B13
7482 I12
7483 I13
7500 D 8
7501 I 9
7503 E10
7510 G15



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2052	J I	2212	F11	3211	E14		
2053	J I	2214	F11	3212	F14		
2055	H I	2215	F12	3213	D14		
2056	H 2	2216	G12	3214	I14		
2057	H 2	2217	E16	3215	E14		
2058	H 3	2218	I16	3216	D15		
2059	H 3	3050	D I	3217	D14		
2060	H 4	3051	I I	3218	F15		
2061	G 3	3052	G 4	3219	E13		
2063	K I	3053	F 4	3220	E12		
2064	K I	3054	K 3	3221	F11		
2065	K 2	3055	K 4	3222	E13		
2066	K 3	3056	J 6	3225	I15		
2067	K 4	3057	J 6	3226	E15		
2068	K 4	3058	G I	5050	D I		
2069	K 6	3059	F 2	5051	D I		
2070	K 6	3064	G 4	5052	F I		
2071	J 6	3065	G I	5054	H 3		
2072	E I	3066	H 5	5055	H 4		
2073	G I	3067	G 5	5056	K I		
2074	H I	3068	I 5	5057	K 2		
2080	G 5	3100	C 3	5058	H I		
2081	H 6	3101	B 3	5059	H 2		
2082	I 4	3102	C 4	5060	G 5		
2083	G 4	3103	C 4	5062	F I		
2084	G 6	3104	C 3	5070	K 3		
2100	B I	3105	C 4	5071	K 4		
2101	C 3	3106	C 4	5072	I 5		
2102	B 3	3107	C 5	5100	B 2		
2103	C 3	3108	A 3	5101	B 4		
2104	D 3	3109	A 3	5102	B 5		
2105	D 4	3110	A 5	5103	D 7		
2106	A 3	3111	B10	5104	C 8		
2107	A 5	3112	C 6	5114	D 9		
2108	C 7	3113	D 6	5115	B10		
2109	B 5	3114	D 5	5117	B11		
2110	C 4	3115	B10	5150	A13		
2111	C 5	3116	B10	5180	K13		
2112	B 6	3117	D 7	5181	J15		
2113	B 6	3118	D 8	5200	I13		
2115	C 7	3119	D 9	6000	A I		
2116	D 7	3120	E 5	6051	H 3		
2117	D 5	3121	E 6	6052	E 2		
2118	D 8	3125	D 4	6100	B 2		
2120	A 6	3126	D 5	6101	B 5		
2121	A 7	3127	A 6	6102	D 6		
2124	A 2	3128	A 2	6103	B 2		
2125	A 2	3129	A 2	6104	A 4		
2150	C11	3131	A 3	6105	E10		
2151	B11	3132	A 3	6200	E13		
2152	D11	3133	A 5	6201	E15		
2153	D11	3134	A 5	6203	E16		
2154	A15	3135	A 4	7050	I 5		
2155	C16	3137	B11	7051	G 2		
2156	D14	3150	B11	7055	H 5		
2157	D13	3151	A13	7056	H 5		
2158	D13	3152	D13	7100	B 8		
2159	E11	3153	E12	7102	B 4		
2161	A13	3154	E11	7103	A 2		
2162	A14	3155	E11	7104	A 5		
2163	A13	3156	E 9	7120	E11		
2164	E11	3157	E10	7121	E 9		
2165	E10	3160	D12	7150	B13		
2180	G10	3180	F 9	7180	G11		
2182	G 9	3181	F10	7181	G10		
2183	H10	3182	G10	7182	G 8		
2184	H10	3183	G 9	7183	E 8		
2186	J14	3184	H10	7185	J10		
2187	K14	3186	G 9	7186	I 7		
2188	J15	3187	F 8	7200	K15		
2189	J14	3188	F 9	7201	J16		
2191	J14	3189	J14	7202	D14		
2192	A15	3190	H 9	7203	E12		
2200	H12	3191	K13	7210	G16		
2201	I13	3200	H12	9185	K14		
2202	I14	3201	I14	9186	C 5		
2203	F14	3202	F13	9187	I13		
2204	E13	3203	K16	9200	J16		
2205	I15	3204	J16				
2206	I15	3205	H16				
2207	F15	3206	F16				
2208	F15	3207	F13				

Cassette car radio 22DC521/00

22DC525/02

Service
Service
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Supplement

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Find enclosed the technical informations concerning the CD interface Module specific for the 22 DC 521 and 22 DC 525 in supplement from the Service Manual number 4822 725 22875

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Electrical Part-list	2
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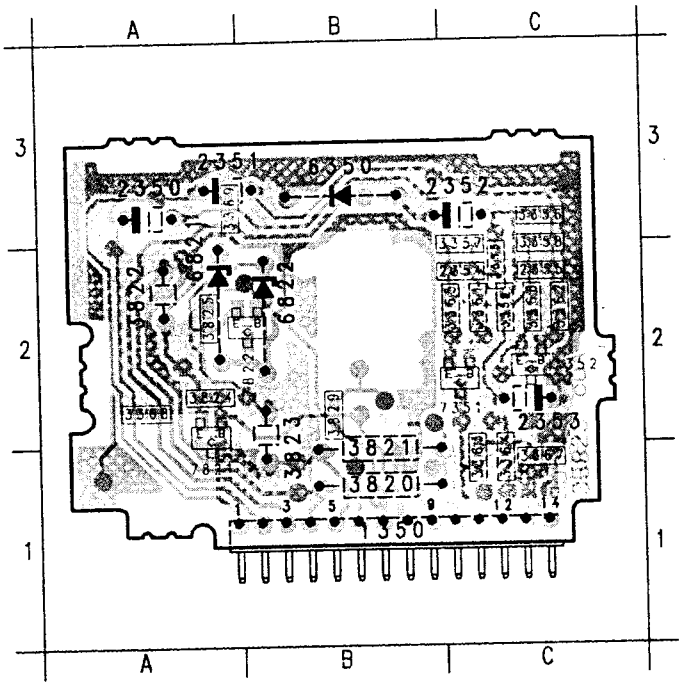
PCS 61512

PHILIPS

C D Interface Module lay-out 22 DC 521/00 22 DC 525/02



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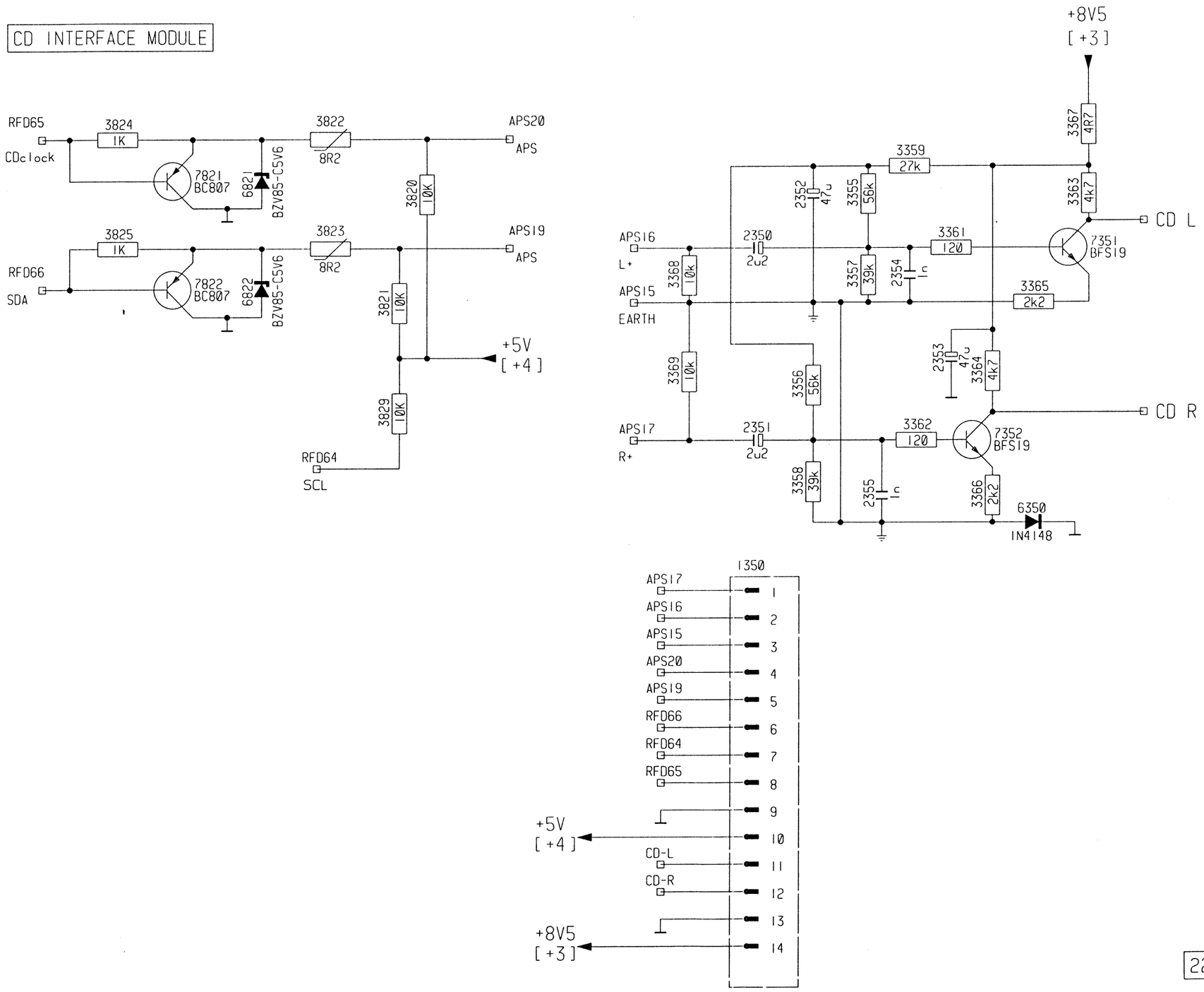
2350	3A
2351	3A
2352	3C
2353	2C
2354	2C
2355	2C
3355	2C
3356	3C
3357	3C
3358	3C
3359	2C
3361	2C
3362	2C
3363	1C
3364	1C
3365	2C
3366	2C
3367	1C
3368	2A
3369	3A
3820	1B
3821	1B
3822	2A
3823	1B
3824	2A
3825	2A
3829	2B
6350	3B
6821	2A
6822	2B
7351	2C
7352	2C
7821	1A
7822	2B

Miscellaneous		
1350	4822 265 41221	Connector B.to B. 14 p.
⊣⊢		
2350	4822 124 40244	2,2UF20% 63V
2351	4822 124 40244	2,2UF20% 63V
2352	4822 124 23178	47UF20% 16V
2353	4822 124 23178	47UF20% 16V
2354	4822 122 33837	1NF10%X7R 50V
2355	4822 122 33837	1NF10%X7R 50V
⊣▭⊢		
3355	4822 051 20563	56K00 5% 0,1W
3356	4822 051 20563	56K00 5% 0,1W
3357	4822 051 20393	39K00 5% 0,1W
3358	4822 051 20393	39K00 5% 0,1W
3359	4822 051 20273	27K00 5% 0,1W
3361	4822 051 20121	120R00 5% 0,1W
3362	4822 051 20121	120R00 5% 0,1W
3363	4822 051 20472	4K70 5% 0,1W
3364	4822 051 20472	4K70 5% 0,1W
3365	4822 051 20222	2K20 5% 0,1W
⊣▭⊢		
3366	4822 051 20222	2K20 5% 0,1W
3367	4822 051 20478	4R70 5% 0,1W
3368	4822 051 20103	10K00 5% 0,1W
3369	4822 051 20103	10K00 5% 0,1W
3820	4822 050 21003	10K00 1% 0,6W
3821	4822 050 21003	10K00 1% 0,6W
3822	4822 116 40221	8R2 20%
3823	4822 116 40221	8R2 20%
3824	4822 051 20102	1K00 5% 0,1W
3825	4822 051 20102	1K00 5% 0,1W
3829	4822 051 20103	10K00 5% 0,1W
⊣▷⊢		
6350	4822 130 30621	1N4148
6821	4822 130 32904	BZV85-C5V6
6822	4822 130 32904	BZV85-C5V6
7351	4822 130 42353	BFS19
7352	4822 130 42353	BFS19
7821	4822 130 42132	BC807
7822	4822 130 42132	BC807

CD INTERFACE MODULE



22DC521 - 22DC525

1350 G 6
2350 B 6
2351 C 6
2352 B 6
2353 C 7
2354 B 7
2355 D 7
3355 B 7
3356 C 6
3357 B 7
3358 D 6
3359 A 7
3361 B 7
3362 C 7
3363 B 8
3364 C 8
3365 B 8
3366 D 8
3367 A 8
3368 B 5
3369 C 5
3820 B 4
3821 B 3
3822 A 3
3823 B 3
3824 A 1
3825 B 1
3829 C 3
6350 D 8
6821 B 2
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7352 C 8
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7822 B 2

Auto cassette deck P6

Version 0

Service
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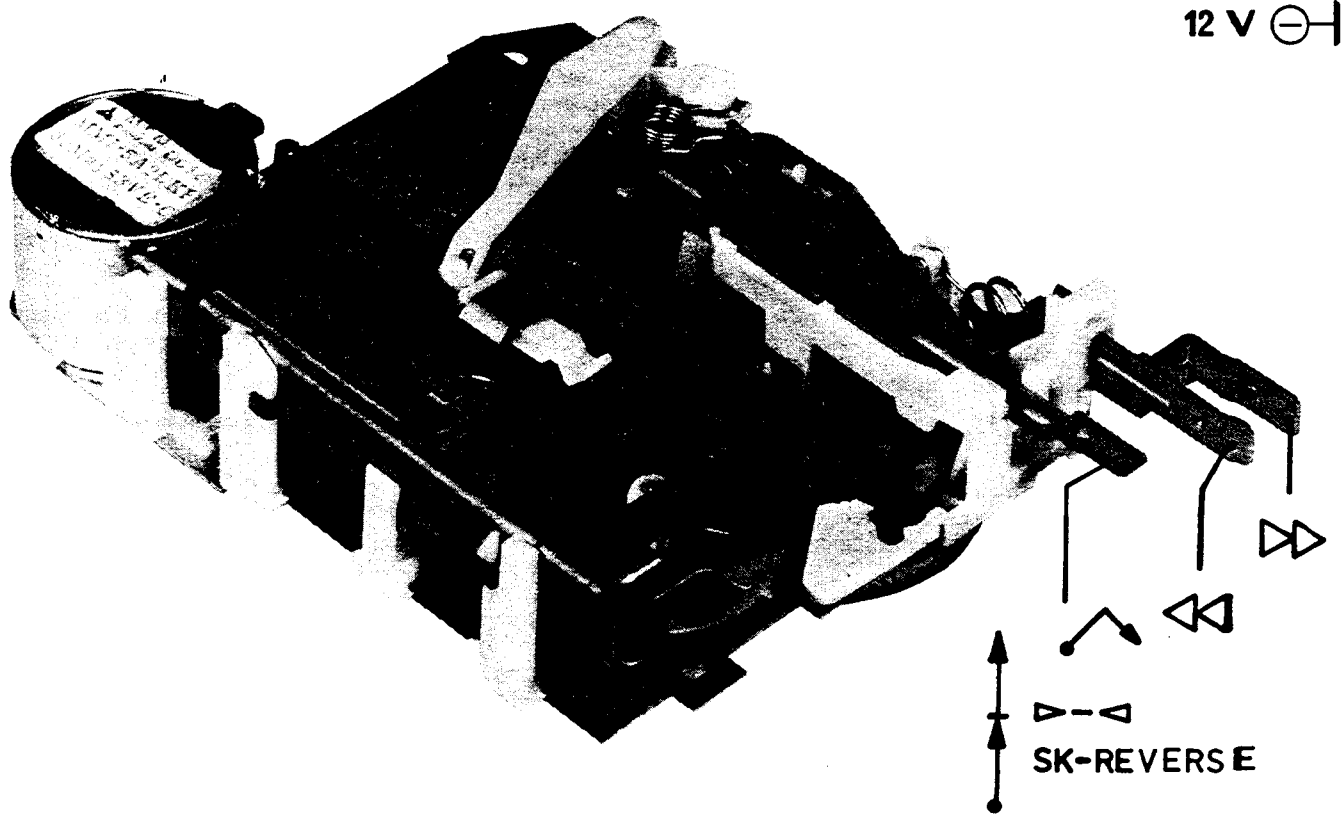

360 27 A12

SPEZIFIKATION

Bandgeschwindigkeit	: 4,76 cm/s ± 2% (10-45° C)
Arbeitsspannung	: 8,4-15 V
Gleichlaufschwankungen	: ⩽ 0,3% (10-45° C)
Uebersprechen	: ⩾ 35 dB (1 kHz)
Umspuldauer (C60)	: ⩽ 110 s
Spurenzahl	: 2 x 2

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LAUFWERKFUNKTION (Bilder 1 ... 5)

In genannten Bildern sind mit Pfeilen die Bewegungen gekennzeichnet, welche die Teile bei einem bestimmten Vorgang ausführen.
In den beigelegten Tabellen ist die Bewegungsfolge festgelegt, wie sie in den Bildern gelesen werden soll.
Es wurde folgende Richtlinie zugrundegelegt:

1 → 3, 1 → 2 : Bewegung zweier verschiedener Teile

1 → 2, 2 → 2a : Bewegung nur eines Bauteils, das sich mit mehreren Teilen aufbaut und das wegen der Deutlichkeit des Bildes an mehreren Stellen Zeichnerisch dargestellt ist (etwa die Friktion).

Bild 1 zeigt die Ausgangsstellung
Bild 2 ... 5 sind das Ergebnis der in Bild 1 ausgeführten Bewegungen (Cassette ist also eingelegt, das Laufwerk befindet sich in Wiedergabestellung).

INSTANDHALTUNG

Es empfiehlt sich, das Laufwerk in regelmässigen Zeitabständen zu reinigen und an den wichtigsten Stellen zu schmieren.

1. Reinigen mit Alkohol oder Spiritus

— Wiedergabeknopf
— Tonwellen
— Andruckrollen
— Seilrollen

Zum Reinigen von Kopf, Druckrolle und Tonwelle kann auch eine s.g. "drop-in"-Reinigungscassette (SBC114-4822 389 20015) benutzt werden.

2. Schmiervorschrift

— Siehe Explosionsansicht 34 975E.

REPARATURHINWEISE

An einigen Stellen sind Bauteile durch Kunststofnocken verriegelt.
Zum Ausbau dieser Bauteile müssen die Nocken verbogen, verdreht usw. werden.
Die Zahnräder 107b, 128b und die Druckrollenbügel 119 sind durch eine Einschnapverbindung an den Achsen befestigt. Mit Hilfe eines Schraubenziehers lassen sich diese Bauteile ausbauen.
Wenn Zahnrad 107b (oder 128b) ausgewechselt wird, ist auch der zugehörige Bügel 107a (oder 128a) auszuwechseln.
Auswechseln der genannten Bauteile siehe Bildern 6 ... 9.

EINSTELLUNGEN UND KONTROLLEN

Benötigte Messgeräte

— Universal-Testcassette SBC419-4822 397 30069
— Universal-Testcassette SBC420-4822 397 30071
— Friktions-Testcassette 4822 395 30054
— Wechselspannungs-Millivoltmeter
— Federwaage 50-500 p
— Gleichlaufanalysator.

1. Azimut (Bilder 11 und 12)

— Beide Lautsprecherausgänge mit 4 Ω belasten.
— An beide Lautsprecherausgänge ein Wechselspannungs-Millivoltmeter schalten.
— Mit Hilfe einer Testcassette SBC419 oder SBC420 das 10-kHz-Signal wiedergeben.
— Schraube A auf den Mittelwert der Höchst-Ausgangsspannungen einstellen.
— Die Differenz zwischen beiden Kanälen darf zuhöchst 4 dB betragen.
— Auf Stellung "reverse" umschalten.
— Falls der gemessene Wert vom bereits gemessenen Wert abweicht, das lager 118 im vorderen Schwungrad ("reverse") verdrehen.

2. Aufwickelfriktion und Gegenzug

— Friktions-Testcassette in das Gerät einlegen. Die Aufwickelfriktion muss für beide Richtungen 45-55 pcm betragen, gemessen nach einer Einlaufdauer von 2 Minuten.
— Der Gegenzug muss für beide Richtungen 4-6 pcm betragen.
— Bei einem abweichenden Wert muss die entsprechende Aufwickelfriktion oder der entsprechende Gegenzug ausgewechselt werden.

3. Andruckrolle 119

— Kontrolle nach Bild 13.

Der Andruckrollendruck ist nicht einstellbar. Bei einem abweichenden Wert muss Feder 507 ausgewechselt werden.

4. Gleichlaufschwankungen/Bandgeschwindigkeit

Es muss mit dem Autoradio komplett kontrolliert werden, und zwar wie folgt.
— Gleichlaufanalysator an die Lautsprecherausgänge schalten.
— Testcassette SBC419 oder SBC420 einlegen und das 3150-Hz-Signal wiedergeben.
— Der Jaulwert muss $\leqslant$ 0,3% sein.
— Die Bandgeschwindigkeit muss 4,76 cm/s $\pm$ 2% betragen.
Die Geschwindigkeit lässt sich mit Schraube B (Bild 10) einstellen.

Bei einem übermässigen Jaulwert müssen folgende Teile auf ihre richtige Arbeitsweise (Einstellung) kontrolliert werden
— Motor 132
— Andruckrolle 119
— Reibkupplungen 103
— Schwungräder 116, 137
— Seil 117

5. Schwungrad 116, 137

— Siehe Bild 14.

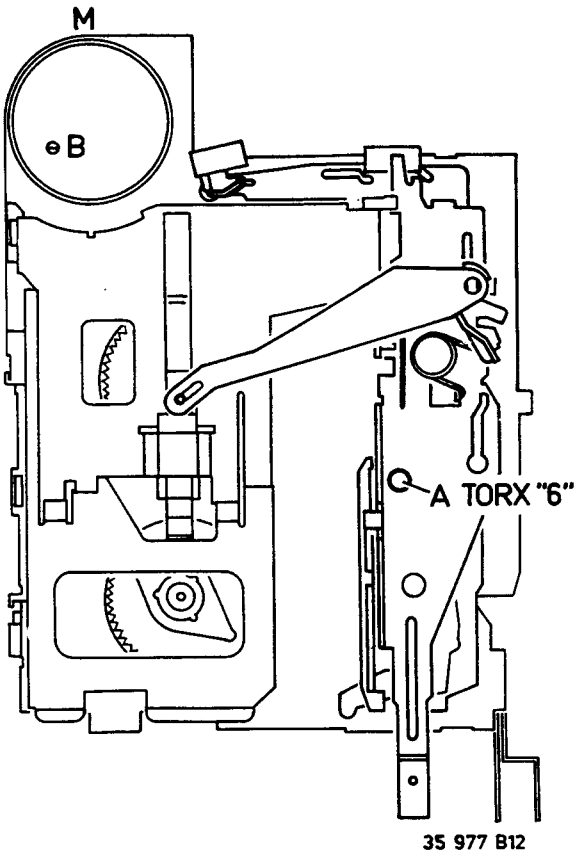


Fig. 11

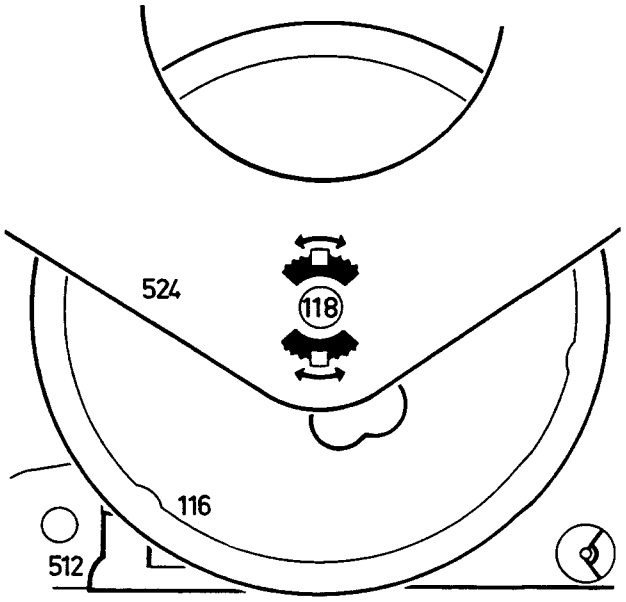


Fig. 12 35 978 A12

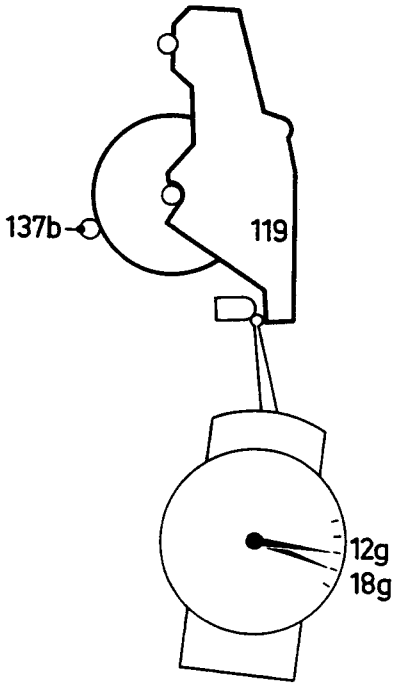


Fig. 13

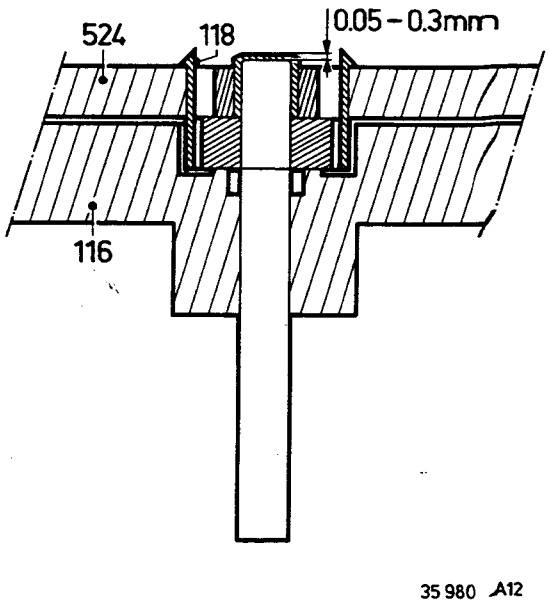
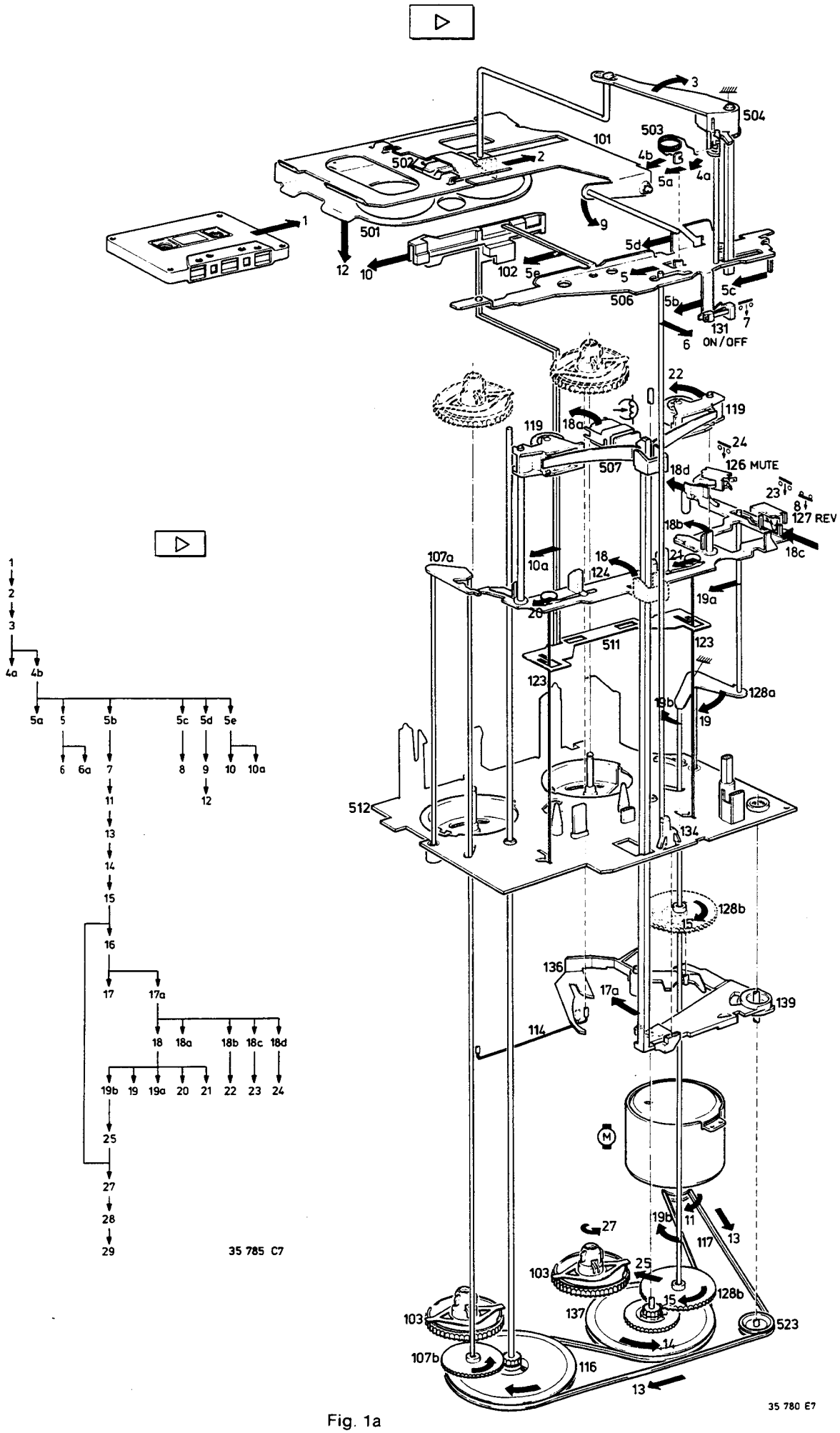


Fig. 14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11 12
13
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17 17a
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19b 19 19a 20 21 22 23 24
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27
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35 785 C7
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501
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506
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102
131
ON/OFF
MUTE
REV
107a
107b
116
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119
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128a
128b
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137
139
114
103
523
35 780 E7

Fig. 1a

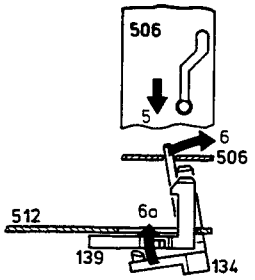
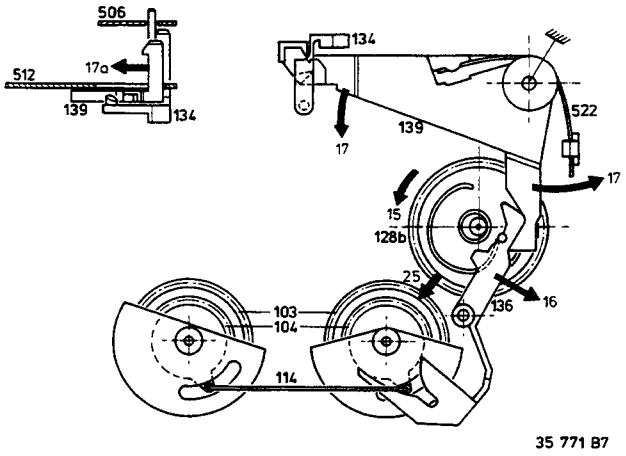
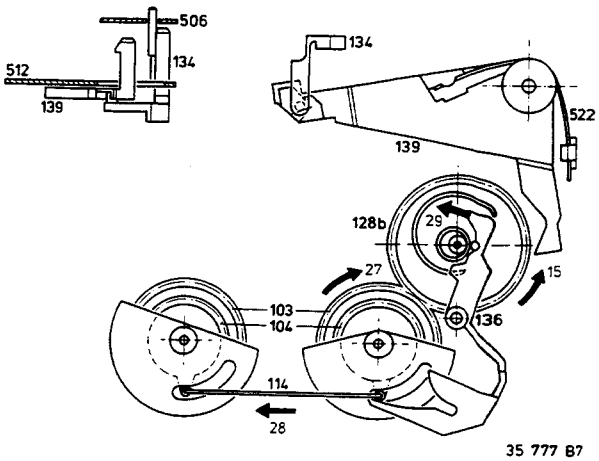


Fig. 1b 35 768 A7



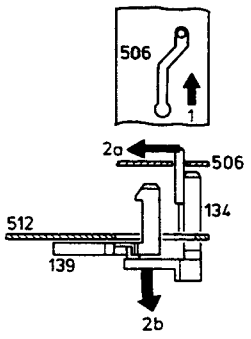
35 771 B7

Fig. 1c



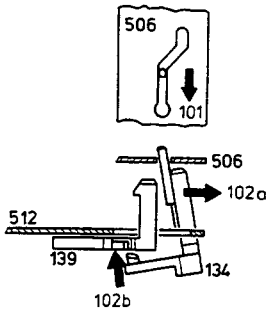
35 777 B7

Fig. 1d



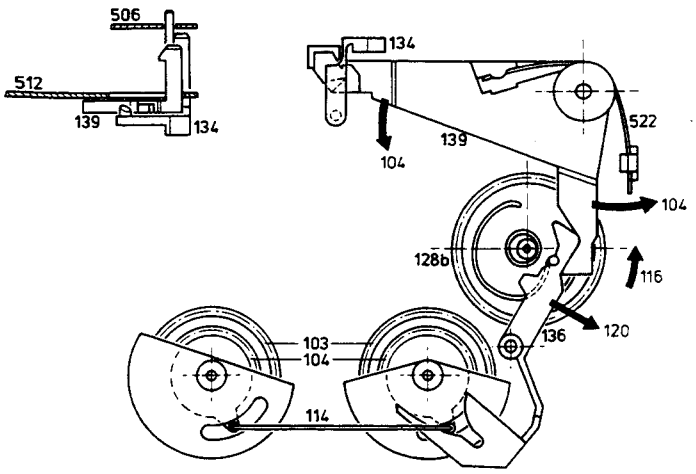
36 026 A7

Fig. 2b



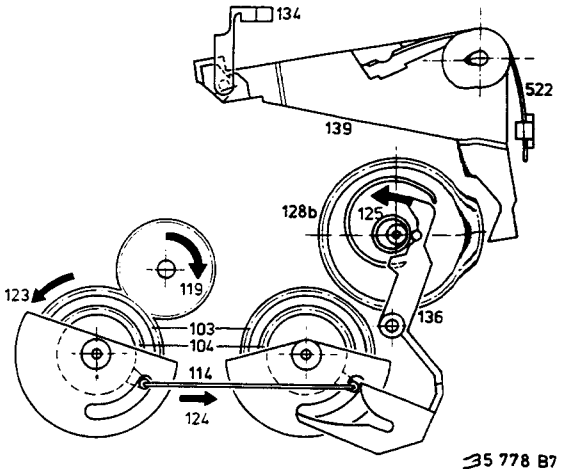
35 767 A7

Fig. 2c



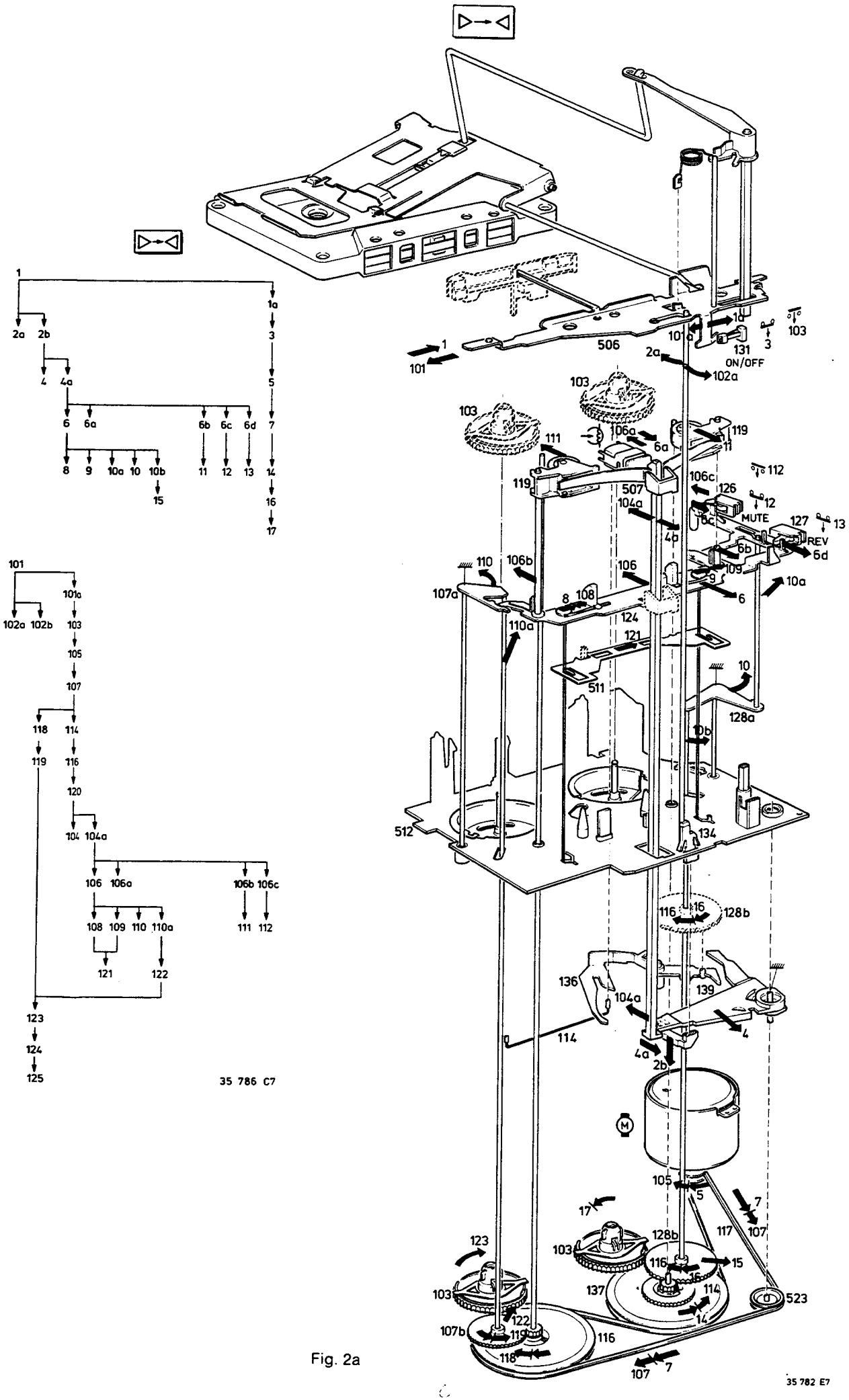
35 773 B7

Fig. 2d



35 778 B7

Fig. 2e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102a 102b 103
105
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118 114
119 116
120
104 104a
106 106a 106b 106c
108 109 110 110a 111 112
121 122
123
124
125
35 786 C7
506
131
ON/OFF
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507
MUTE
REV
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139
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523
137
35 782 E7

Fig. 2a

TAPE END

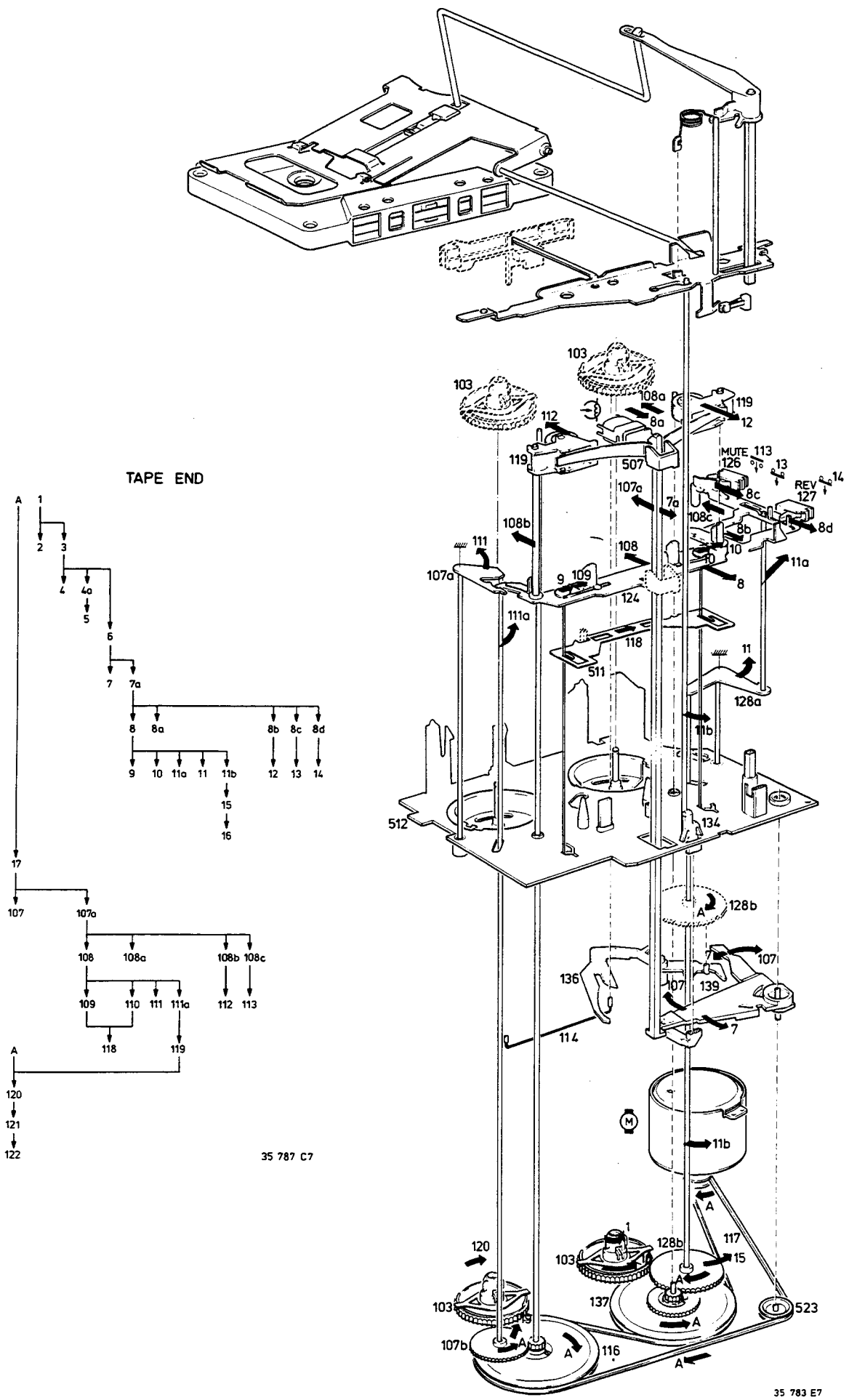
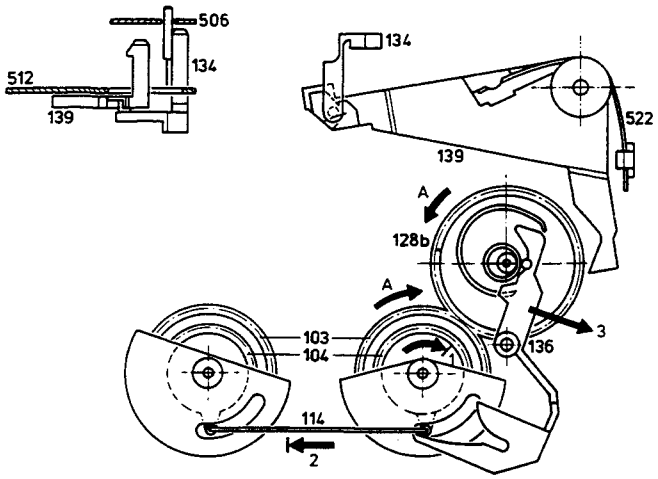
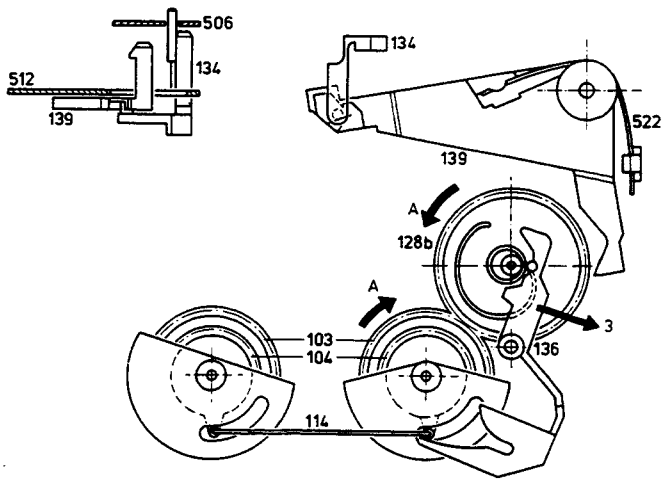


Fig. 3a



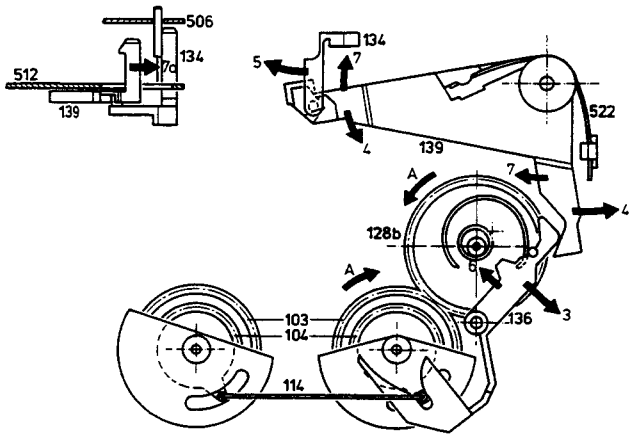
35 776 B7

Fig. 3b



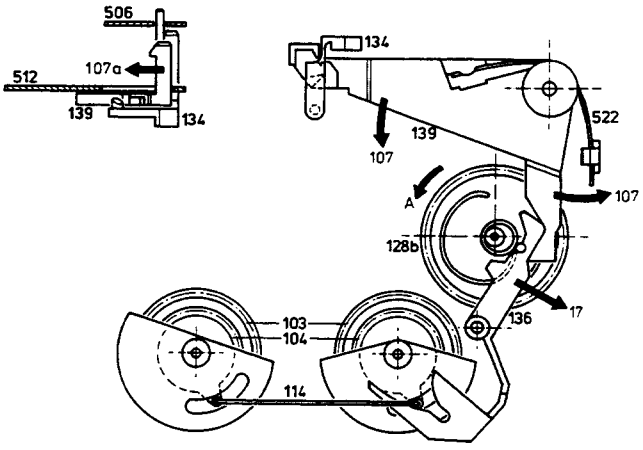
35 775 B7

Fig. 3c



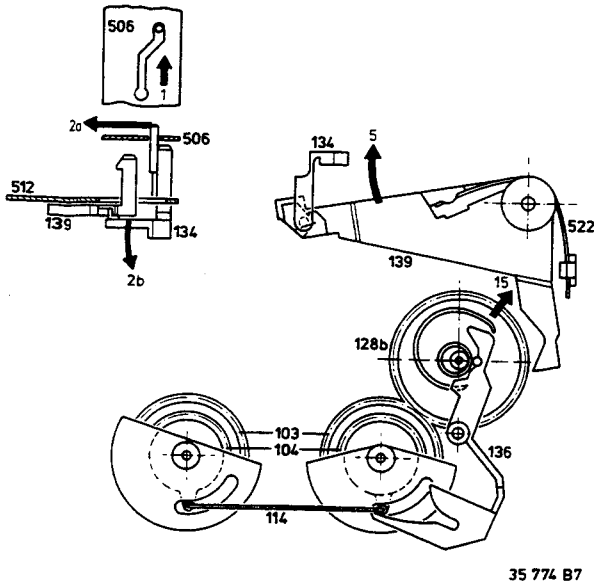
35 770 B7

Fig. 3d



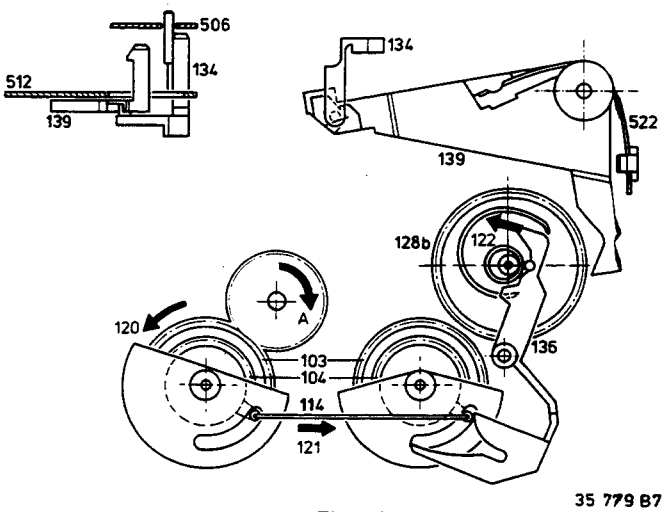
35 772 B7

Fig. 3e



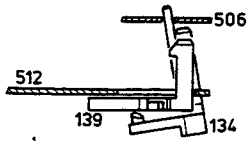
35 774 B7

Fig. 4b



35 779 B7

Fig. 3f



35 769 A7

Fig. 4c

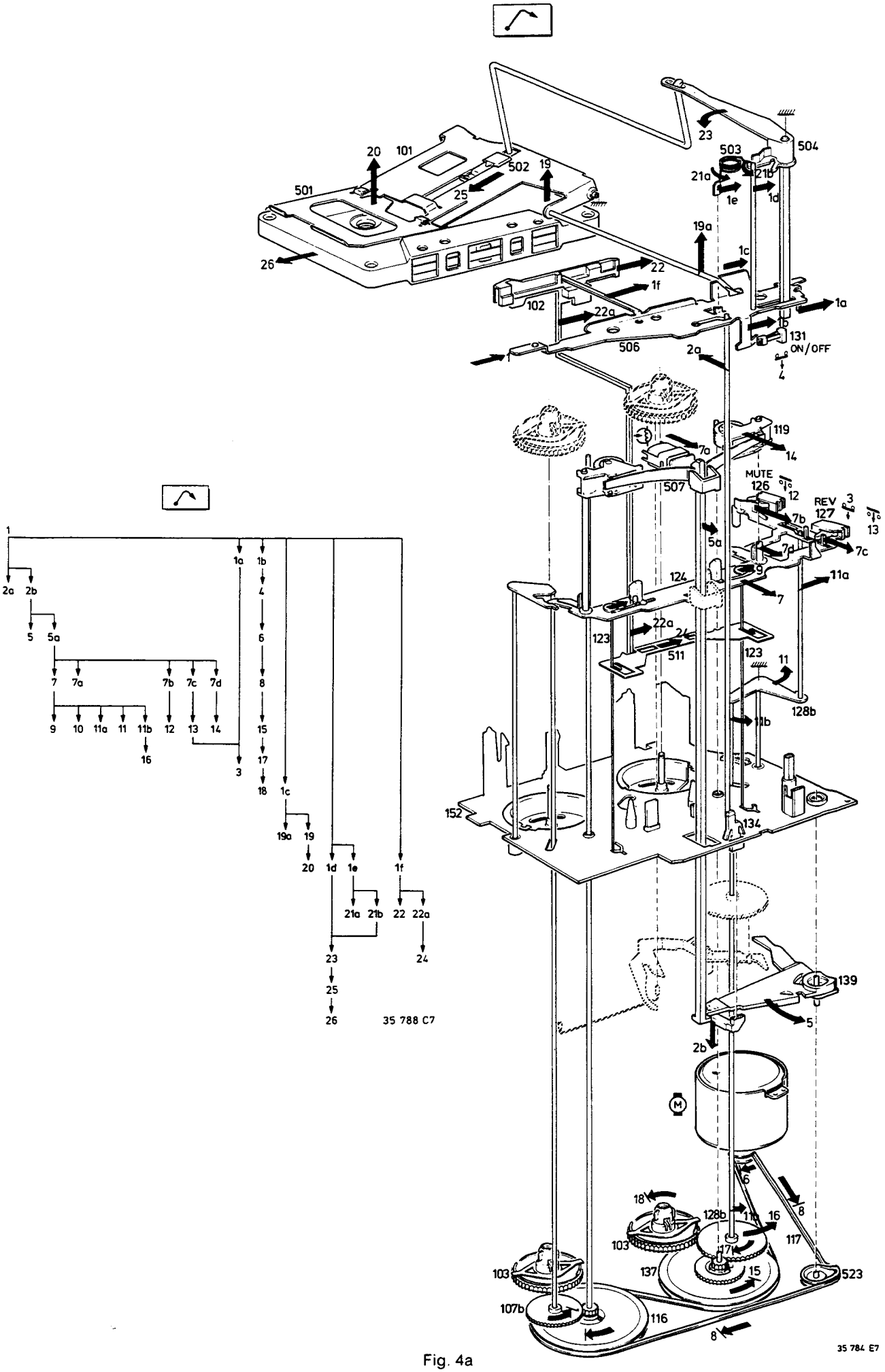
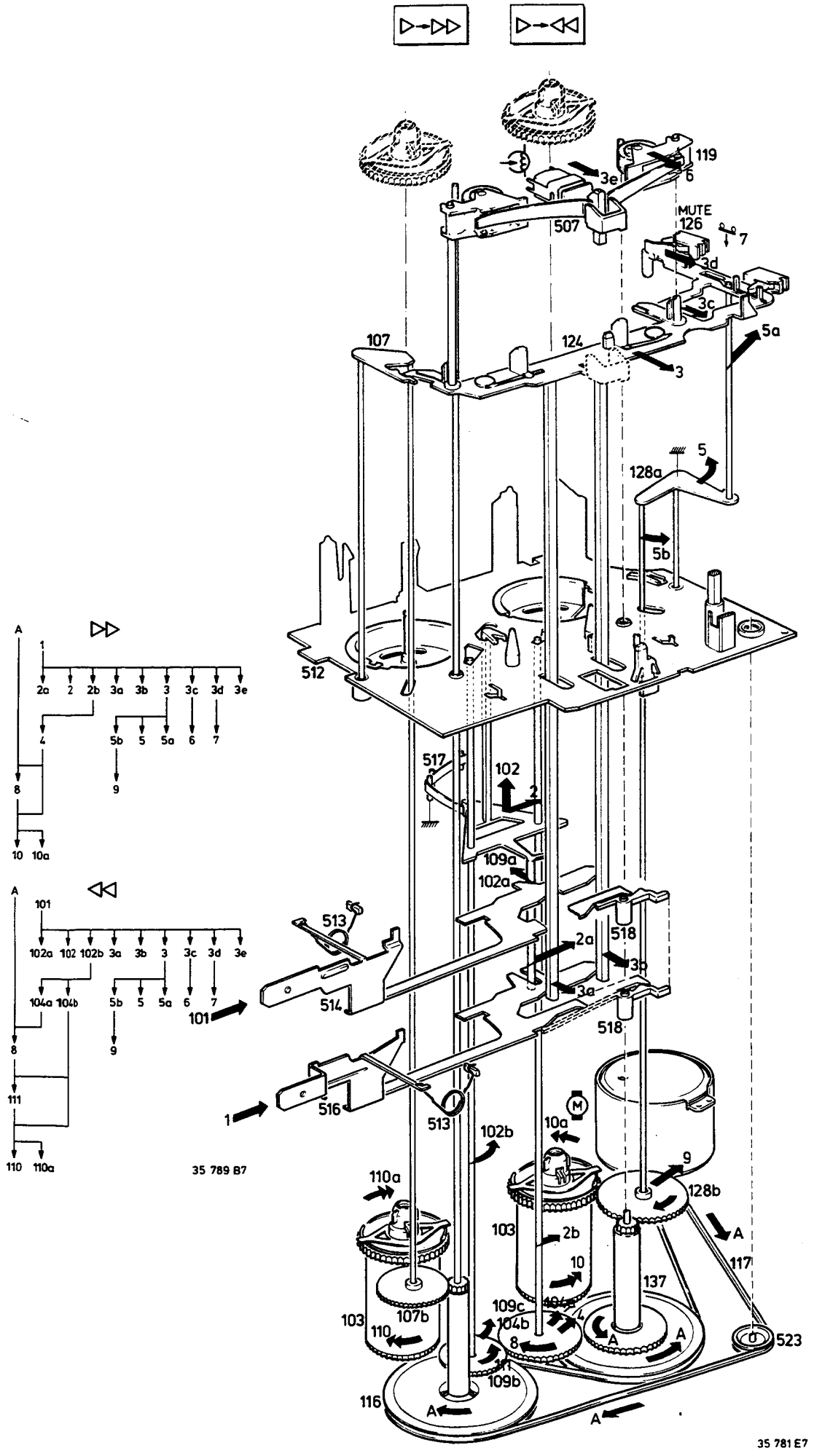


Fig. 4a

CS 96 431


MUTE
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119
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7
3e
507
3d
3c
5a
107
124
3
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128a
5b
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517
102
2
109a
102a
513
518
2a
3b
3a
514
101
516
1
513
102b
10a
9
128b
110a
103
2b
10
137
117
107b
109c
104b
8
523
109b
116
A
35 789 B7
35 781 E7

Fig. 5

A	4822 390 10069
B	4822 390 20027
101	4822 466 81479
102	4822 462 30242
103	4822 466 70526
104	4822 466 70527
107	4822 522 20325
109	4822 522 20327
113	4822 520 30406
114	4822 492 90076
116	4822 528 80985
117	4822 358 30405
118	4822 520 30407
119	4822 403 40157
122	4822 249 30087
123	4822 528 80983
124	4822 459 80209
126	4822 277 10749
127	4822 277 10748
128	4822 522 20326
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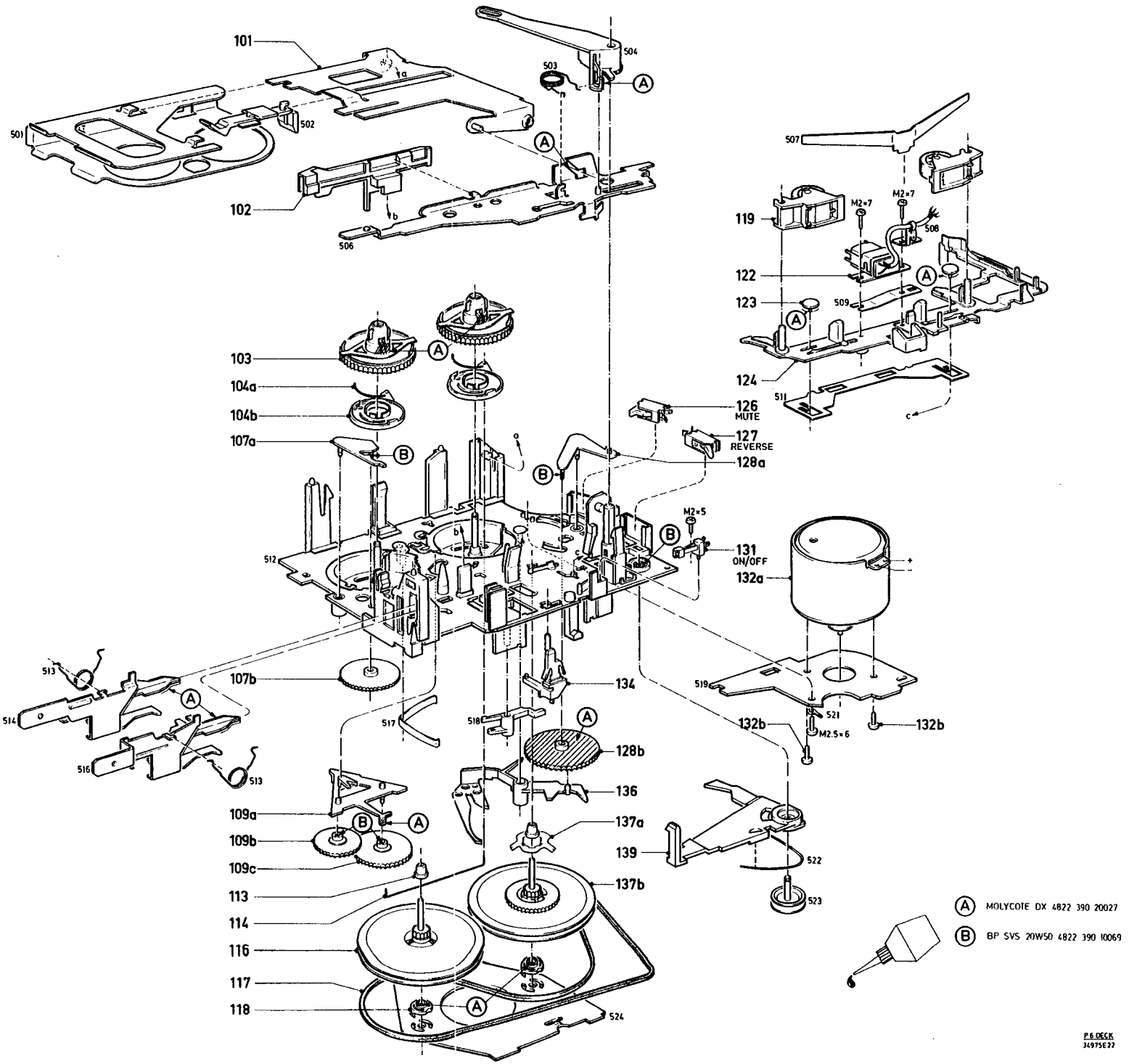

P6.0EGK
34975E22

BELT 117, FLY WHEELS 116, 137, COG WHEEL 107

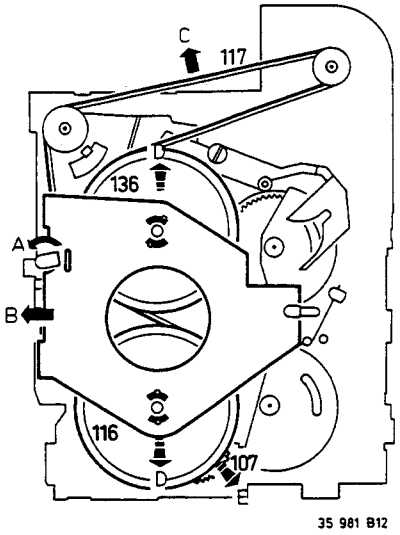

Fig. 6

PRESSURE ROLLER 119, HEAD 122

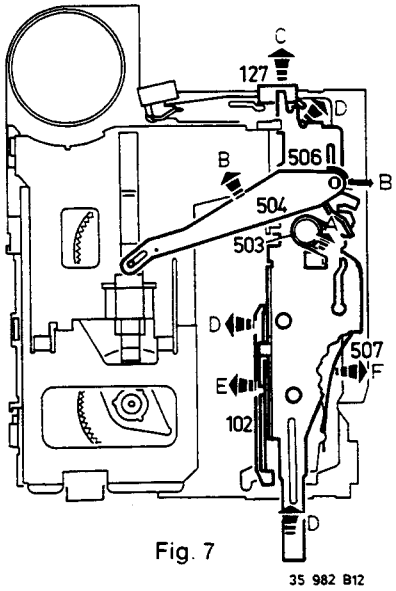

Fig. 7

HEAD BRACKET 124

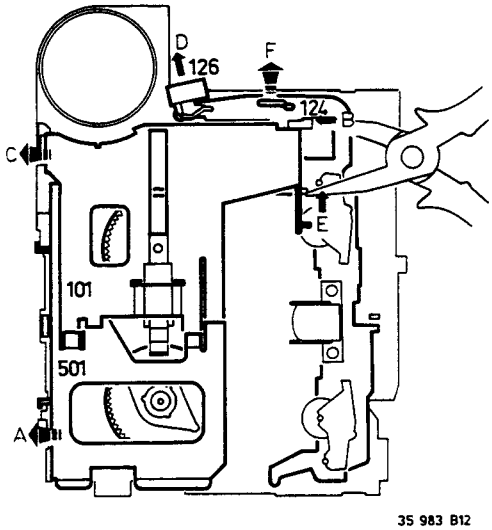

Fig. 8

CLUTCH 103

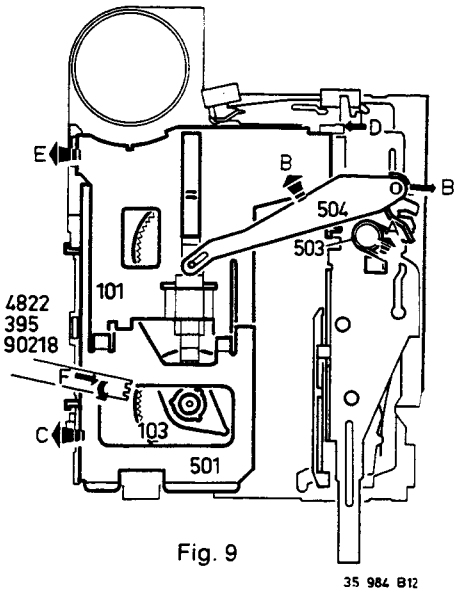

Fig. 9

35 984 B12

COG WHEELS 109, 128

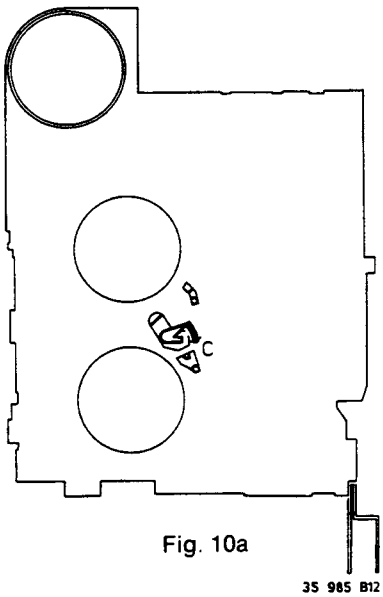

Fig. 10a

35 985 B12

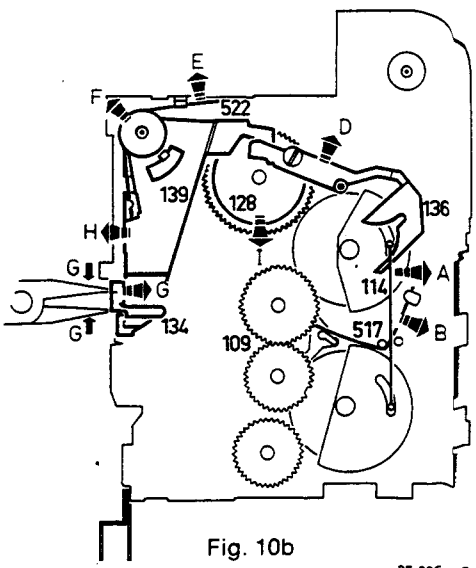

Fig. 10b

35 986 A2